



VISHAY®

Vishay Intertechnology, Inc.



LED

Diodes *for the*
AUTOMOTIVE INDUSTRY:
Device Selector Guide by Application



**All products listed
in this brochure are
AEC-Q101 qualified**

For technical questions within your region, please contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com

www.vishay.com



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ENGINE VEHICLE CONTROL UNIT – 12 V / 24 V

**ENGINE COOLING
EXHAUST CONTROL SYSTEMS**

For technical questions within your region, please contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com



ENGINE VEHICLE CONTROL UNIT – 12 V / 24 V ENGINE COOLING



Schottky Rectifiers



V20DM120HM3 – High Current Density, High Voltage Schottky Rectifiers

- 20 A, 120 V for freewheeling and high frequency rectification
- SMPD (TO-263AC) package with 1.8 mm low profile

Ultrafast Rectifiers



VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 200 V for high frequency switching, 22 ns recovery, $T_{jmax} = 175\text{ }^{\circ}\text{C}$
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Standard Rectifiers



MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



Ultrafast Rectifiers



VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, $T_{jmax} = 175\text{ }^{\circ}\text{C}$
- SMPD (TO-263AC) package with 1.3 mm low profile

Standard Rectifiers

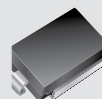


SE10F Series – Miniature-Package Rectifiers for Rail to Rail Signal Line Protection

- High ESD voltage and surge current capability
- Compatible with SOD-123 pad layout and package size



TVS



SM8S10AT thru SM8S43AT – High Power TVS for Main Load Dump Suppression for Rail to Rail Signal Line Protection

- 8000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

Standard Rectifiers



SE20AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm

TVS



SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains

Ultrafast Rectifiers



VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, $T_{jmax} = 175\text{ }^{\circ}\text{C}$
- SMF (TO-219AB) package with < 1 mm low profile

Small Signal Schottky Diodes



BAT46W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Very low turn-on voltage and fast switching
- Protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges

Ultrafast Rectifiers



VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 200 V for high frequency switching, 25 ns recovery, $T_{jmax} = 175\text{ }^{\circ}\text{C}$
- SMPC (TO-277A) package with 1.1 mm low profile

Small Signal Switching Diodes



1N4448W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Silicon epitaxial planar diode
- Fast switching diode



ENGINE VEHICLE CONTROL UNIT – 12 V / 24 V

ENGINE COOLING



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 A, 200 V for high frequency switching, 20 ns recovery, $T_{jmax} = 175\text{ }^{\circ}\text{C}$
- SlimSMA (DO-221AC) package with 1 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of $\pm 2.5\%$
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



ENGINE VEHICLE CONTROL UNIT – 12 V / 24 V EXHAUST CONTROL SYSTEMS



Schottky Rectifiers

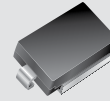
V8PAM12HM3 – High Current Density, High Voltage Schottky Rectifiers

- 8 A, 120 V for freewheeling and high frequency rectification
- SMPA (DO-221BC) package with 0.95 mm low profile

TVS

SM5S10AT thru SM5S43AT – High Power TVS for Main Load Dump Suppression

- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Schottky Rectifiers

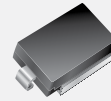
V20DM120HM3 – High Current Density, High Voltage Schottky Rectifiers

- 20 A, 120 V for freewheeling and high frequency rectification
- SMPD (TO-263AC) package with 1.8 mm low profile

TVS

SM6S10AT thru SM6S43AT – High Power TVS for Main Load Dump Suppression

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Standard Rectifiers

MSX1P Series – Miniature Rectifiers With High ESD Capability for Rail to Rail Signal Line and Power line Protection

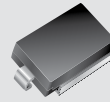
- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS

SM8S10AT thru SM8S43AT – High Power TVS for Main Load Dump Suppression

- 8000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Standard Rectifiers

SE10F Series – Miniature-Package Rectifiers for Rail to Rail Signal Line Protection

- High ESD voltage and surge current capability
- Compatible with SOD-123 pad layout and package size



TVS

SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Standard Rectifiers

SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout

Small Signal Switching Diodes

BAV21WS – Fast Switching Diode for General Purpose

- Silicon epitaxial planar diode



Ultrafast Rectifiers

AU3P Series – High Current Density Ultrafast Rectifiers With High Avalanche Capability

- 3 A, up to 1 kV 20 mJ avalanche capability with fast switching characteristics
- SMPC (TO-277A) package with low profile of 1.1 mm



Small Signal Schottky Diodes

SD103AWS – Ideal for Fast Switching and Low Logic Level Applications

- Metal on silicon Schottky diode protected by PN junction guard ring
- Low forward voltage drop and fast switching ideal for protection of MOS devices, steering, biasing, and coupling diodes





ENGINE VEHICLE CONTROL UNIT – 12 V / 24 V EXHAUST CONTROL SYSTEMS



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



POWERTRAIN – INJECTION CONTROL AND FUEL PUMP

DIRECT INJECTOR CONTROL

PIEZO INJECTION CONTROL

FUEL PUMP CONTROL

For technical questions within your region, please contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com



POWERTRAIN – INJECTION CONTROL AND FUEL PUMP DIRECT INJECTOR CONTROL



Schottky Rectifiers

SS8PH9HM3, SS8PH10HM3 – High Current Density, High Voltage Schottky Rectifiers

- 8 A, 100 V for freewheeling and high frequency rectification
- SMPC (TO-277A) package with 1.1 mm low profile



Schottky Rectifiers

V8PAM12HM3 – High Current Density, High Voltage Schottky Rectifiers

- 8 A, 120 V for freewheeling and high frequency rectification
- SMPA (DO-221BC) package with low profile of 0.95 mm



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



Standard Rectifiers

SE20AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm



Ultrafast Rectifiers

AU3P Series – High Current Density Ultrafast Rectifiers With High Avalanche Capability

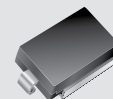
- 2 A, 200 V fast-switching rectifier for high frequency applications, 20 mJ high avalanche capability, and 75 ns fast switching characteristics
- SMPC (TO-277A) package with low profile of 1.1 mm



Ultrafast Rectifiers

ESH2P Series – Ultrafast Rectifiers With Wide Operating Temperature Range

- 2 A, 200 V fast switching rectifier for high frequency applications, 20 mJ high avalanche capability, and 75 ns fast switching characteristics
- SMP (DO-220AA) package with high operating temperature to +175 °C



TVS

SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

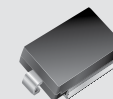
- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



TVS

SM6S10A thru SM6S36A – High Power Density Uni-Directional TVS for Power Line Load Dump

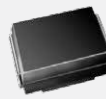
- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



TVS

SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2: 2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



TVS

SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Small Signal Schottky Diodes

BAT54 – Single and Dual Construction Protect Against Excessive Voltage

- Very low turn-on voltage and fast switching
- PN junction guard ring protects against excessive voltage, such as electrostatic discharges



Small Signal Switching Diodes

BAV23C – Fast Switching Dual Diode With Common Cathode

- Silicon epitaxial planar diode



POWERTRAIN – INJECTION CONTROL AND FUEL PUMP DIRECT INJECTOR CONTROL



Ultrafast Rectifiers

VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (TO-219AB) package with < 1 mm low profile



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 A, 200 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile



Ultrafast Rectifiers

VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 200 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPAC (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 200 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 % ESD and surge rated
- Symmetrical leads are wave and reflow solderable



POWERTRAIN – INJECTION CONTROL AND FUEL PUMP PIEZO INJECTION CONTROL



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



Standard Rectifiers

SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout



Ultrafast Rectifiers

AU3P Series – High Current Density Ultrafast Rectifiers With High Avalanche Capability

- 2 A, 200 V fast-switching rectifier for high frequency applications, 20 mJ high avalanche capability, and 75 ns fast switching characteristics
- SMPC (TO-277A) package with low profile of 1.1 mm



Ultrafast Rectifiers

ESH2P Series – Ultrafast Rectifiers With Wide Operating Temperature Range

- 2 A, 200 V fast switching rectifier for high frequency applications, 20 mJ high avalanche capability, and 75 ns fast switching characteristics
- SMP (DO-220AA) package with high operating temperature to +175 °C



Ultrafast Rectifiers

VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (TO-219AB) package with < 1 mm low profile



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 A, 200 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile



Ultrafast Rectifiers

VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

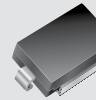
- 2 × 3 A, 200 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPC (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 200 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



TVS

SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



TVS

SM6S10AT thru SM6S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



TVS

SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2: 2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



TVS

SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



POWERTRAIN – INJECTION CONTROL AND FUEL PUMP PIEZO INJECTION CONTROL



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2×8 A, 200 V for high frequency switching, 27 ns recovery, $T_{jmax} = 175$ °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



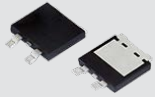
Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- 500 mW power dissipation, excellent thermal characteristics, $R_{thJA} 130$ k/W
- Symmetrical leads are wave and reflow solderable



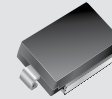
POWERTRAIN – INJECTION CONTROL AND FUEL PUMP FUEL PUMP CONTROL



Schottky Rectifiers

V35DM120HM3 – High Current Density, High Voltage Schottky Rectifiers

- 35 A, 120 V Schottky rectifiers for freewheeling and rectification
- SMPD (TO-263AC) package with 1.8 mm low profile



TVS

SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

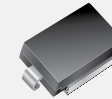
- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Schottky Rectifiers

V35PWM10HM3 – High Current Density, High Voltage Schottky Rectifiers

- 35 A, 100 V Schottky rectifiers for freewheeling and rectification
- SlimDPAK (TO-252AE) package with 1.3 mm low profile; 120 V and 150 V types available



TVS

SM6S10AT thru SM6S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

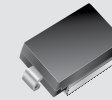
- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS

SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2: 2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Standard Rectifiers

SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout



TVS

SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Ultrafast Rectifiers

VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (TO-219AB) package with < 1 mm low profile



Small Signal Schottky Diodes

BAT54 – Single and Dual Construction Protect Against Excessive Voltage

- Very low turn-on voltage and fast switching
- PN junction guard ring protects against excessive voltage, such as electrostatic discharges



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 A, 200 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile



Small Signal Switching Diodes

BAV23C – Fast Switching Dual Diode With Common Cathode

- Silicon epitaxial planar diode



POWERTRAIN – INJECTION CONTROL AND FUEL PUMP FUEL PUMP CONTROL



Ultrafast Rectifiers

VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

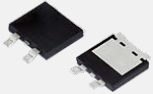
- 2 × 3 A, 200 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPC (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 200 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- Symmetrical leads are wave and reflow solderable



CHASSIS CONTROL

**ELECTRIC POWER STEERING (BLDC MOTOR DRIVE)
TRANSMISSION ECU, DOUBLE CLUTCH BLDC**

For technical questions within your region, please contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com



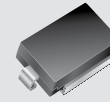
Schottky Rectifiers



V35DM120HM3 – High Current Density, High Voltage Schottky Rectifiers

- 35 A, 120 V Schottky rectifiers for freewheeling and rectification
- SMPD (TO-263AC) package with 1.8 mm low profile

TVS



SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

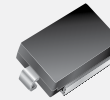
Schottky Rectifiers



V60D100CHM3 – High Current Density, High Voltage Schottky Rectifiers

- 30 A × 2, 100 V Schottky rectifiers for freewheeling and high frequency rectification
- SMPD (TO-263AC) package with 1.8 mm low profile

TVS



SM6S10AT thru SM6S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

Standard Rectifiers

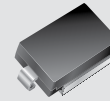


MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS



SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

Standard Rectifiers



SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, 3 A current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout

TVS



SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains

Ultrafast Rectifiers



VS-1EFH01HM3 – High Current Density, Soft Recovery, FRED Pt[®] Ultrafast Diode

- 1 A, 100 V for high frequency switching, 17 ns recovery, T_{jmax} = 175 °C
- SMF (DO-219AB) package with < 1 mm low profile

Small Signal Schottky Diodes



SD103AWS – Ideal for Fast Switching and Low Logic Level Applications

- Metal on silicon Schottky diode protected by PN junction guard ring
- Low forward voltage drop and fast switching ideal for protection of MOS devices, steering, biasing, and coupling diodes

Ultrafast Rectifiers



VS-2EJH01HM3 – High Current Density, Soft Recovery, FRED Pt[®] Ultrafast Diode

- 3 A, 100 V for high frequency switching, 20 ns recovery, T_{jmax} = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile

Small Signal Switching Diodes



BAV21WS – Fast Switching Diode for General Purpose

- Silicon epitaxial planar diode



CHASSIS CONTROL ELECTRIC POWER STEERING (BLDC MOTOR DRIVE)



Ultrafast Rectifiers

VS-6CSH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 100 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPD (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 100 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



CHASSIS CONTROL TRANSMISSION ECU, DOUBLE CLUTCH BLDC



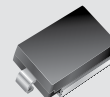
Schottky Rectifiers



V35DM120HM3 – High Current Density, High Voltage Schottky Rectifiers

- 35 A, 120 V Schottky rectifiers for freewheeling and rectification
- SMPD (TO-263AC) package with 1.8 mm low profile

TVS



SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

Schottky Rectifiers



V60D100CHM3 – High Current Density, High Voltage Schottky Rectifiers

- 30 A × 2, 120 V Schottky rectifiers for freewheeling and rectification
- SMPD (TO-263AC) package with 1.8 mm low profile

TVS



SM6S10AT thru SM6S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

Standard Rectifiers

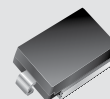


MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS



SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

Standard Rectifiers



SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout

TVS



SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains

Ultrafast Rectifiers



VS-1EFH01HM3 – High Current Density, Soft Recovery, FRED Pt[®] Ultrafast Diode

- 1 A, 100 V for high frequency switching, 17 ns recovery, T_{jmax} = 175 °C
- SMF (DO-219AB) package with < 1 mm low profile

Small Signal Schottky Diodes



BAT46W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Very low turn-on voltage and fast switching
- Protected by a PN junction guard ring against excessive voltage such as electrostatic discharges

Ultrafast Rectifiers



VS-2EJH01HM3 – High Current Density, Soft Recovery, FRED Pt[®] Ultrafast Diode

- 3 A, 100 V for high frequency switching, 20 ns recovery, T_{jmax} = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile

Small Signal Switching Diodes



1N4448W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Silicon epitaxial planar diode
- Fast switching diode



CHASSIS CONTROL TRANSMISSION ECU, DOUBLE CLUTCH BLDC



Ultrafast Rectifiers

VS-6CSH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

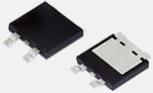
- 2 × 3 A, 100 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPCL (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 100 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPDL (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



BODY ELECTRONICS

COMFORT, DOOR, WINDOW CONTROLS
INFOTAINMENT, NAVIGATION, AUDIO
INTERIOR LED LIGHTING

For technical questions within your region, please contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com



BODY ELECTRONICS COMFORT, DOOR, WINDOW CONTROLS

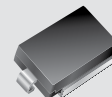


Schottky Rectifiers

V20DM120HM3 – High Current Density, High Voltage Schottky Rectifiers

- 20 A, 120 V for freewheeling and high frequency rectification
- SMPD (TO-263AC) package with 1.8 mm low profile

TVS



SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

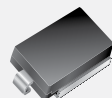


Schottky Rectifiers

V35PWM10HM3 – High Current Density, High Voltage Schottky Rectifiers

- 35 A, 100 V Schottky rectifiers for freewheeling and rectification
- SlimDPAK (TO-252AE) package with 1.3 mm low profile; 120 V and 150 V types available

TVS



SM6S10AT thru SM6S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



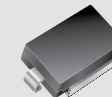
Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS



SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

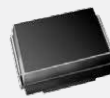


Standard Rectifiers

SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout

TVS



SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Ultrafast Rectifiers

VS-1EFH01HM3 – High Current Density, Soft Recovery, FRED Pt[®] Ultrafast Diode

- 1 A, 100 V for high frequency switching, 17 ns recovery, T_{jmax} = 175 °C
- SMF (DO-219AB) package with < 1 mm low profile

Small Signal Schottky Diodes



SD103AWS – Ideal for Fast Switching and Low Logic Level Applications

- Metal on silicon Schottky diode protected by PN junction guard ring
- Low forward voltage drop and fast switching ideal for protection of MOS devices, steering, biasing, and coupling diodes



Ultrafast Rectifiers

VS-2EJH01HM3 – High Current Density, Soft Recovery, FRED Pt[®] Ultrafast Diode

- 3 A, 100 V for high frequency switching, 20 ns recovery, T_{jmax} = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile

Small Signal Switching Diodes



BAV21WS – Fast Switching Diode for General Purpose

- Silicon epitaxial planar diode



BODY ELECTRONICS COMFORT, DOOR, WINDOW CONTROLS



Ultrafast Rectifiers

VS-6CSH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 100 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPD (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 100 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



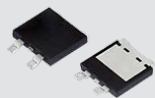
Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



BODY ELECTRONICS INFOTAINMENT, NAVIGATION, AUDIO



Schottky Rectifiers

V40D100CHM3 – High Current Density, High Voltage Schottky Rectifiers

- 20 A × 2, 120 V Schottky rectifiers for freewheeling and rectification
- SMPD (TO-263AC) package with 1.8 mm low profile

TVS

SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Schottky Rectifiers

VSSAF5M10HM3 – High Current Density, High Voltage Schottky Rectifiers

- 5 A, 100 V Schottky Rectifiers for freewheeling and rectification
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm

TVS

SM6S10AT thru SM6S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS

SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Standard Rectifiers

SE20AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm

TVS

SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Ultrafast Rectifiers

VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (TO-219AB) package with < 1 mm low profile

Small Signal Schottky Diodes

SD103AWS – Ideal for Fast Switching and Low Logic Level Applications

- Metal on silicon Schottky diode protected by PN junction guard ring
- Low forward voltage drop and fast switching ideal for protection of MOS devices, steering, biasing, and coupling diodes



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 200 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile

Small Signal Switching Diodes

BAV21WS – Fast Switching Diode for General Purpose

- Silicon epitaxial planar diode



BODY ELECTRONICS INFOTAINMENT, NAVIGATION, AUDIO



Ultrafast Rectifiers

VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 200 V for high frequency switching , 25 ns recovery, Tjmax = 175 °C
- SMPC (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 200 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



BODY ELECTRONICS INTERIOR LED LIGHTING



Schottky Rectifiers

VSSAF5M6HM3 – High Current Density, High Voltage
TMBS® Rectifier

- 5 A, 60 V Schottky rectifiers, high temperature, low leakage, high current density
- SlimSMA (DO-221AC) package with low profile of 0.95 mm and compatible pad layout to SMA (DO-220AC)



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



Standard Rectifiers

SE20AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 200 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile



Ultrafast Rectifiers

VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (TO-219AB) package with < 1 mm low profile



Ultrafast Rectifiers

VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 200 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPC (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 200 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



TVS

TPSMA Series – Surface-Mount PAR® Transient Voltage Suppressor With Wide Operating Temperature Range

- 400 W peak pulse power capability with a 10/1000 μs waveform, repetitive rate (duty cycle) of 0.01 % up to 43 V breakdown voltage
- SMA (DO-214AC) package



TVS

TPSMB Series – Surface-Mount PAR® Transient Voltage Suppressor With Wide Operating Temperature Range

- 600 W peak pulse power capability with a 10/1000 μs waveform, repetitive rate (duty cycle) of 0.01 % ; up to 43 V breakdown voltage
- SMB (DO-214AA) package



Small Signal Schottky Diodes

SD103AWS – Ideal for Fast Switching and Low Logic Level Applications

- Metal on silicon Schottky diode protected by PN junction guard ring bullet
- Low forward voltage drop and fast switching ideal for protection of MOS devices, steering, biasing, and coupling diodes



Small Signal Switching Diodes

BAV21WS – Fast Switching Diode for General Purpose

- Silicon epitaxial planar diode



BODY ELECTRONICS INTERIOR LED LIGHTING



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



ACTIVE SAFETY

ENHANCED ELECTRICAL BRAKING (EEB)

ELECTRONIC STABILITY PROGRAM (ESP)

VEHICLE STABILITY CONTROL (VSC)

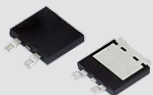
ELECTRICAL PARKING BRAKE (EPB)

INTEGRATED PARKING BRAKE (IPB)

ADVANCED DRIVER ASSISTANCE SYSTEM (ADAS)



ACTIVE SAFETY ENHANCED ELECTRICAL BRAKING (EEB)

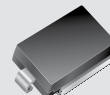


Schottky Rectifiers

V20DM120HM3 – High Current Density, High Voltage Schottky Rectifiers

- 20 A , 120 V for freewheeling and high frequency rectification
- SMPD (TO-263AC) package with 1.8 mm low profile

TVS



SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Schottky Rectifiers

V40D100CHM3 – High Current Density, High Voltage Schottky Rectifiers

- 20 A × 2, 120 V Schottky rectifiers for freewheeling and rectification
- SMPD (TO-263AC) miniature package with 1.8 mm low profile

TVS



SM6S10AT thru SM6S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



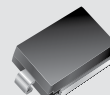
Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS



SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Ultrafast Rectifiers

VS-1EFH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 100 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (DO-219AB) package with < 1 mm low profile

TVS



SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Ultrafast Rectifiers

VS-2EJH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 100 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile

Small Signal Schottky Diodes



BAT46W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Very low turn-on voltage and fast switching
- Protected by a PN junction guard ring against excessive voltage such as electrostatic discharges



Ultrafast Rectifiers

VS-6CSH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 100 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPC (TO-277A) package with 1.1 mm low profile

Small Signal Switching Diodes



1N4448W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Silicon epitaxial planar diode
- Fast switching diode



ACTIVE SAFETY ENHANCED ELECTRICAL BRAKING (EEB)



Ultrafast Rectifiers

VS-8CVH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 100 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile

Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



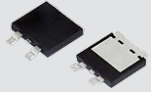
Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



ACTIVE SAFETY ELECTRONIC STABILITY PROGRAM (ESP)



Schottky Rectifiers

V40D100CHM3 – High Current Density, High Voltage Schottky Rectifiers

- 20 A × 2, 120 V Schottky rectifiers for freewheeling and rectification
- SMPD (TO-263AC) package with 1.8 mm low profile



Schottky Rectifiers

V60D100CHM3 – High Current Density, High Voltage Schottky Rectifiers

- 30 A × 2, 100 V Schottky rectifiers for freewheeling and rectification
- SMPD (TO-263AC) package with 1.8 mm low profile



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



Standard Rectifiers

SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout



Ultrafast Rectifiers

VS-1EFH01HM3 – High Current Density, Soft Recovery, FRED Pt[®] Ultrafast Diode

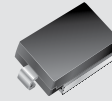
- 1 A, 100 V for high frequency switching, 17 ns recovery, T_{jmax} = 175 °C
- SMF (DO-219AB) package with < 1 mm low profile



Ultrafast Rectifiers

VS-2EJH01HM3 – High Current Density, Soft Recovery, FRED Pt[®] Ultrafast Diode

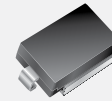
- 3 A, 100 V for high frequency switching, 20 ns recovery, T_{jmax} = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile



TVS

SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

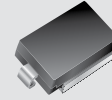
- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



TVS

SM6S10AT thru SM6S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



TVS

SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



TVS

SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Small Signal Schottky Diodes

BAT46W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Very low turn-on voltage and fast switching
- Protected by a PN junction guard ring against excessive voltage such as electrostatic discharges



Small Signal Switching Diodes

1N4448W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Silicon epitaxial planar diode
- Fast switching diode



ACTIVE SAFETY ELECTRONIC STABILITY PROGRAM (ESP)



Ultrafast Rectifiers

VS-6CSH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 100 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPD (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 100 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile llet



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

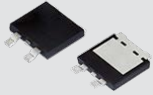
- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



ACTIVE SAFETY VEHICLE STABILITY CONTROL (VSC)



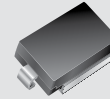
Schottky Rectifiers



V20DM120HM3 – High Current Density, High Voltage Schottky Rectifiers

- 20 A , 120 V for freewheeling and high frequency rectification
- SMPD (TO-263AC) package with 1.8 mm low profile

TVS



SM5S10AT thru SM5S43AT – High Power TVS for Main Load Dump Suppression

- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

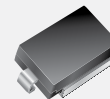
Schottky Rectifiers



V40D100CHM3 – High Current Density, High Voltage Schottky Rectifiers

- 20 A × 2, 120 V Schottky rectifiers for freewheeling and rectification
- SMPD (TO-263AC) package with 1.8 mm low profile

TVS



SM6S10AT thru SM6S43AT – High Power TVS for Main Load Dump Suppression

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

Standard Rectifiers

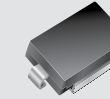


MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS



SM8S10AT thru SM8S43AT – High Power TVS for Main Load Dump Suppression for Rail to Rail Signal Line Protection

- 8000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

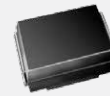
Standard Rectifiers



SE20AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm

TVS



SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains

Ultrafast Rectifiers



VS-1EFH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 100 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (DO-219AB) package with < 1 mm low profile

Small Signal Schottky Diodes



BAT54 – Single and Dual Construction Protect Against Excessive Voltage

- Very low turn-on voltage and fast switching
- PN junction guard ring protects against excessive voltage, such as electrostatic discharges

Ultrafast Rectifiers



VS-2EJH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 100 V for high frequency switching, 20 ns recovery, = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile

Small Signal Switching Diodes



BAV23C – Fast Switching Dual Diode with Common Cathode

- Silicon epitaxial planar diode



ACTIVE SAFETY VEHICLE STABILITY CONTROL (VSC)



Ultrafast Rectifiers

VS-6CSH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

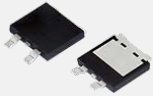
- 2 × 3 A, 100 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPC (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 100 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

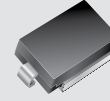
- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



Schottky Rectifiers

V35PWM10HM3 – High Current Density, High Voltage Schottky Rectifiers

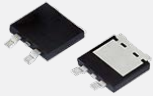
- 35 A, 100 V Schottky rectifiers for freewheeling and rectification
- SlimDPAK (TO-252AE) package with 1.3 mm low profile; 120 V and 150 V types available



TVS

SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Schottky Rectifiers

V40D100CHM3 – High Current Density, High Voltage Schottky Rectifiers

- 20 A × 2, 120 V Schottky rectifiers for freewheeling and rectification
- SMPD (TO-263AC) package with 1.8 mm low profile



TVS

SM6S10AT thru SM6S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

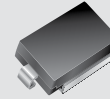
- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS

SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2: 2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Standard Rectifiers

SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout



TVS

SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Ultrafast Rectifiers

VS-1EFH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 100 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (DO-219AB) package with < 1 mm low profile



Small Signal Schottky Diodes

BAT54 – Single and Dual Construction Protect Against Excessive Voltage

- Very low turn-on voltage and fast switching
- PN junction guard ring protects against excessive voltage, such as electrostatic discharges



Ultrafast Rectifiers

VS-2EJH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 100 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile



Small Signal Switching Diodes

BAV23C – Fast Switching Dual Diode With Common Cathode

- Silicon epitaxial planar diode



Ultrafast Rectifiers

VS-6CSH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 100 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPD (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 100 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

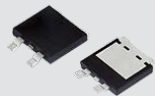
- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



ACTIVE SAFETY INTEGRATED PARKING BRAKE (IPB)



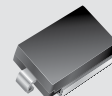
Schottky Rectifiers



V35DM120HM3 – High Current Density, High Voltage Schottky Rectifiers

- 35 A, 120 V Schottky rectifiers for freewheeling and rectification
- SMPD (TO-263AC) package with 1.8 mm low profile

TVS



SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

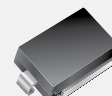
Schottky Rectifiers



V60D100CHM3 – High Current Density, High Voltage Schottky Rectifiers

- 30 A x 2, 120 V Schottky rectifiers for freewheeling and rectification
- SMPD (TO-263AC) package with 1.8 mm low profile

TVS



SM6S10AT thru SM6S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

Standard Rectifiers

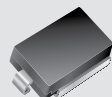


MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS



SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2: 2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

Standard Rectifiers



SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout

TVS



SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains

Ultrafast Rectifiers



VS-1EFH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 100 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (DO-219AB) package with < 1 mm low profile

Small Signal Schottky Diodes



BAT54 – Single and Dual Construction Protect Against Excessive Voltage

- Very low turn-on voltage and fast switching
- PN junction guard ring protects against excessive voltage, such as electrostatic discharges

Ultrafast Rectifiers



VS-2EJH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 100 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile

Small Signal Switching Diodes



BAV23C – Fast Switching Dual Diode with Common Cathode

- Silicon epitaxial planar diode



ACTIVE SAFETY INTEGRATED PARKING BRAKE (IPB)



Ultrafast Rectifiers

VS-6CSH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 100 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPC (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 100 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



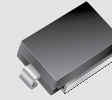
ACTIVE SAFETY ADVANCED DRIVER ASSISTANCE SYSTEM (ADAS)



Schottky Rectifiers

V20PWM10HM3 – High Current Density, High Voltage TMBS® Rectifier

- 20 A, 100 V low leakage Schottky rectifiers for freewheeling and rectification
- SlimDPAK (TO-252AE) package with low profile of 1.3 mm



TVS

SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

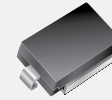
- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Schottky Rectifiers

VSSAF5M10HM3 – High Current Density, High Voltage Schottky Rectifiers

- 5 A, 100 V Schottky rectifiers for freewheeling and rectification
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm



TVS

SM6S10AT thru SM6S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS

SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2: 2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Standard Rectifiers

SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout



TVS

SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Ultrafast Rectifiers

VS-1EFH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 100 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (DO-219AB) package with < 1 mm low profile



Small Signal Schottky Diodes

BAT46W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Very low turn-on voltage and fast switching
- Protected by a PN junction guard ring against excessive voltage such as electrostatic discharges



Ultrafast Rectifiers

VS-2EJH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 100 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile



Small Signal Switching Diodes

1N4448W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Silicon epitaxial planar diode
- Fast switching diode



ACTIVE SAFETY ADVANCED DRIVER ASSISTANCE SYSTEM (ADAS)



Ultrafast Rectifiers

VS-6CSH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

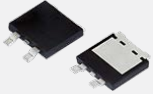
- 2 × 3 A, 100 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPCL (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 100 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPDL (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



PASSIVE SAFETY

AIRBAG CONTROL SYSTEMS
RESTRAINT SYSTEM POWER SUPPLIES
PEDESTRIAN PROTECTION SYSTEMS

For technical questions within your region, please contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com



PASSIVE SAFETY AIRBAG CONTROL SYSTEMS

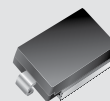


Schottky Rectifiers

V20PWM10HM3 – High Current Density, High Voltage TMBS® Rectifier

- 20 A, 100 V low leakage Schottky rectifiers for freewheeling and rectification
- SlimDPAK (TO-252AE) package with low profile of 1.3 mm

TVS



SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

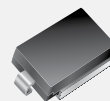


Schottky Rectifiers

VSSAF5M6HM3 – High Current Density, High Voltage TMBS® Rectifier

- 5 A, 60 V Schottky rectifiers, high temperature, low leakage, high current density
- SlimSMA (DO-221AC) package with low profile of 0.95 mm and compatible pad layout to SMA (DO-220AC)

TVS



SM6S10AT thru SM6S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



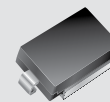
Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS



SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2: 2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

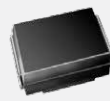


Standard Rectifiers

SE20AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm

TVS



SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Ultrafast Rectifiers

VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (TO-219AB) package with < 1 mm low profile

Small Signal Schottky Diodes



SD103AWS – Ideal for Fast Switching and Low Logic Level Applications

- Metal on silicon Schottky diode protected by PN junction guard ring
- Low forward voltage drop and fast switching ideal for protection of MOS devices, steering, biasing, and coupling diodes



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 200 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile

Small Signal Switching Diodes



BAV21WS – Fast Switching Diode for General Purpose

- Silicon epitaxial planar diode



PASSIVE SAFETY AIRBAG CONTROL SYSTEMS



Ultrafast Rectifiers



VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 200 V for high frequency switching , 25 ns recovery, Tjmax = 175 °C
- SMPC (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 200 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable

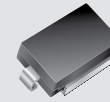


Schottky Rectifiers

V20PWM10HM3 – High Current Density, High Voltage
TMBS® Rectifier

- 20 A, 100 V low leakage Schottky rectifiers for freewheeling and rectification
- SlimDPAK (TO-252AE) package with low profile of 1.3 mm

TVS



SM5S10AT thru SM5S43AT – High Power Density
Uni-Directional TVS for Power Line Load Dump

- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling

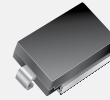


Schottky Rectifiers

VSSAF5M6HM3 – High Current Density, High Voltage
TMBS® Rectifier

- 5 A, 60 V Schottky rectifiers, high temperature, low leakage, high current density
- SlimSMA (DO-221AC) package with low profile of 0.95 mm and compatible pad layout to SMA (DO-220AC)

TVS



SM6S10AT thru SM6S43AT – High Power Density
Uni-Directional TVS for Power Line Load Dump

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



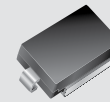
Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With
High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS



SM8S10AT thru SM8S43AT – High Power Density
Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2: 2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Standard Rectifiers

SE20AF Series – High Current Density Rectifiers With
High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm

TVS



SMC3K Series – High Power Density Bidirectional TVS
for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Ultrafast Rectifiers

VS-1EFH01HM3 – High Current Density, Soft Recovery,
FRED Pt® Ultrafast Diode

- 1 A, 100 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (DO-219AB) package with < 1 mm low profile

Small Signal Schottky Diodes



BAT46W – Small Signal Schottky and Switching Diodes in
SOD-123 Package

- Very low turn-on voltage and fast switching
- Protected by a PN junction guard ring against excessive voltage such as electrostatic discharges



Ultrafast Rectifiers

VS-2EJH01HM3 – High Current Density, Soft Recovery,
FRED Pt® Ultrafast Diode

- 3 A, 100 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile

Small Signal Switching Diodes



1N4448W – Small Signal Schottky and Switching Diodes
in SOD-123 Package

- Silicon epitaxial planar diode
- Fast switching diode



PASSIVE SAFETY RESTRAINT SYSTEM POWER SUPPLIES



Ultrafast Rectifiers

VS-6CSH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 100 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPD (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 100 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



PASSIVE SAFETY PEDESTRIAN PROTECTION SYSTEMS



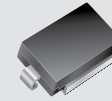
BUY
NOW



Schottky Rectifiers

V20PWM10HM3 – High Current Density, High Voltage
TMBS® Rectifier

- 20 A, 100 V low leakage Schottky rectifiers for freewheeling and rectification
- SlimDPAK (TO-252AE) package with low profile of 1.3 mm



TVS

SM5S10AT thru SM5S43AT – High Power Density
Uni-Directional TVS for Power Line Load Dump

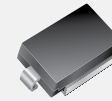
- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Schottky Rectifiers

VSSAF5M6HM3 – High Current Density, High Voltage
TMBS® Rectifier

- 5 A, 60 V Schottky rectifiers, high temperature, low leakage, high current density
- SlimSMA (DO-221AC) package with low profile of 0.95 mm and compatible pad layout to SMA (DO-220AC)



TVS

SM6S10AT thru SM6S43AT – High Power Density
Uni-Directional TVS for Power Line Load Dump

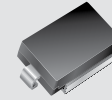
- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With
High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS

SM8S10AT thru SM8S43AT – High Power Density
Uni-Directional TVS for Power Line Load Dump

- 8000 W clamping power rating for ISO16750-2: 2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Standard Rectifiers

SE20AF Series – High Current Density Rectifiers With
High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm



TVS

SMC3K Series – High Power Density Bidirectional TVS
for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Ultrafast Rectifiers

VS-1EFH01HM3 – High Current Density, Soft Recovery,
FRED Pt® Ultrafast Diode

- 1 A, 100 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (DO-219AB) package with < 1 mm low profile



Small Signal Schottky Diodes

SD103AWS – Ideal for Fast Switching and Low Logic
Level Applications

- Metal on silicon Schottky diode protected by PN junction guard ring
- Low forward voltage drop and fast switching ideal for protection of MOS devices, steering, biasing, and coupling diodes



Ultrafast Rectifiers

VS-2EJH01HM3 – High Current Density, Soft Recovery,
FRED Pt® Ultrafast Diode

- 3 A, 100 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile



Small Signal Switching Diodes

BAV21WS – Fast Switching Diode for
General Purpose

- Silicon epitaxial planar diode



PASSIVE SAFETY PEDESTRIAN PROTECTION SYSTEMS



Ultrafast Rectifiers

VS-6CSH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

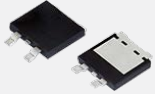
- 2 × 3 A, 100 V for high frequency switching, 25 ns recovery, Tjmax = 175 °C
- SMPD (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH01HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 100 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



EXTERIOR LIGHTING

LED HEADLIGHT UNITS

DAY LIGHTING

LED FOG LIGHTING

REAR AND SIGNAL LED LIGHTS

For technical questions within your region, please contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com



EXTERIOR LIGHTING LED HEADLIGHT UNITS



Schottky Rectifiers

V8PAM12HM3 – High Current Density, High Voltage Schottky Rectifiers

- 8 A, 120 V for freewheeling and high frequency rectification
- SMPA (DO-221BC) package with low profile of 0.95 mm



Schottky Rectifiers

V10P10HM3 – High Current Density, High Voltage TMBS® Rectifier

- 10 A, 100 V for freewheeling and high frequency rectification
- SMPC (TO-277A) package with low profile of 1.1 mm



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



Standard Rectifiers

SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout



Ultrafast Rectifiers

VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (TO-219AB) package with < 1 mm low profile



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 200 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile



Ultrafast Rectifiers

VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 200 V for high frequency switching , 25 ns recovery, Tjmax = 175 °C
- SMPC (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 200 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



TVS

SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



TVS

TPSMA Series – Surface-Mount PAR® Transient Voltage Suppressor With Wide Operating Temperature Range

- 400 W peak pulse power capability with a 10/1000 μs waveform, repetitive rate (duty cycle) of 0.01 %; up to 43 V breakdown voltage
- SMA (DO-214AC) package



Small Signal Schottky Diodes

SD103AWS – Ideal for Fast Switching and Low Logic Level Applications

- Metal on silicon Schottky diode protected by PN junction guard ring bullet
- Low forward voltage drop and fast switching ideal for protection of MOS devices, steering, biasing, and coupling diodes



Small Signal Switching Diodes

BAV21WS – Fast Switching Diode for General Purpose

- Silicon epitaxial planar diode



EXTERIOR LIGHTING LED HEADLIGHT UNITS



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt[®] Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



Schottky Rectifiers

V8PAM12HM3 – High Current Density, High Voltage Schottky Rectifiers

- 8 A, 120 V for freewheeling and high frequency rectification
- SMPA (DO-221BC) package with low profile of 0.95 mm



Schottky Rectifiers

VSSAF5M6HM3 – High Current Density, High Voltage TMBS[®] Rectifier

- 5 A, 60 V Schottky rectifiers, high temperature, low leakage, high current density
- SlimSMA (DO-221AC) package with low profile of 0.95 mm and compatible pad layout to SMA (DO-220AC)



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



Standard Rectifiers

SE20AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm



Ultrafast Rectifiers

VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt[®] Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, T_{jmax} = 175 °C
- SMF (TO-219AB) package with < 1 mm low profile



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt[®] Ultrafast Diode

- 3 A, 200 V for high frequency switching, 20 ns recovery, T_{jmax} = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile



Ultrafast Rectifiers

VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt[®] Ultrafast Diode

- 2 × 3 A, 200 V for high frequency switching, 25 ns recovery, T_{jmax} = 175 °C
- SMPC (TO-277A) package with 1.1 mm low profile



Ultrafast Rectifiers

VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt[®] Ultrafast Diode

- 2 × 4 A, 200 V for high frequency switching, 22 ns recovery, T_{jmax} = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



TVS

SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



TVS

TPSMA Series – Surface-Mount PAR[®] Transient Voltage Suppressor With Wide Operating Temperature Range

- 400 W peak pulse power capability with a 10/1000 μs waveform, repetitive rate (duty cycle) of 0.01 %; up to 43 V breakdown voltage
- SMA (DO-214AC) package



Small Signal Schottky Diodes

BAT46W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Very low turn-on voltage and fast switching
- Protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges



Small Signal Switching Diodes

1N4448W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Silicon epitaxial planar diode
- Fast switching diode



EXTERIOR LIGHTING DAY LIGHTING



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



EXTERIOR LIGHTING LED FOG LIGHTING



Schottky Rectifiers

V8PAM12HM3 – High Current Density, High Voltage Schottky Rectifiers

- 8 A, 120 V for freewheeling and high frequency rectification
- SMPA (DO-221BC) package with low profile of 0.95 mm



Ultrafast Rectifiers

VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 200 V for high frequency switching , 25 ns recovery, Tjmax = 175 °C
- SMPC (TO-277A) package with 1.1 mm low profile



Schottky Rectifiers

VSSAF5M6HM3 – High Current Density, High Voltage TMBS® Rectifier

- 5 A, 60 V Schottky rectifiers, high temperature, low leakage, high current density
- SlimSMA (DO-221AC) package with low profile of 0.95 mm and compatible pad layout to SMA (DO-220AC)



Ultrafast Rectifiers

VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 200 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS

SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Standard Rectifiers

SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout



TVS

TPSMA Series – Surface-Mount PAR® Transient Voltage Suppressor With Wide Operating Temperature Range

- 400 W peak pulse power capability with a 10/1000 μs waveform, repetitive rate (duty cycle) of 0.01 %; up to 43 V breakdown voltage
- SMA (DO-214AC) package



Ultrafast Rectifiers

VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (TO-219AB) package with < 1 mm low profile



Small Signal Schottky Diodes

BAT54 – Single and Dual Construction Protect Against Excessive Voltage

- Very low turn-on voltage and fast switching
- PN junction guard ring protects against excessive voltage, such as electrostatic discharges



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 200 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile



Small Signal Switching Diodes

BAV23C – Fast Switching Dual Diode With Common Cathode

- Silicon epitaxial planar diode



EXTERIOR LIGHTING LED FOG LIGHTING



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



EXTERIOR LIGHTING REAR AND SIGNAL LED LIGHTS



Schottky Rectifiers

V8PAM12HM3 – High Current Density, High Voltage Schottky Rectifiers

- 8 A, 120 V for freewheeling and high frequency rectification
- SMPA (DO-221BC) package with low profile of 0.95 mm



Ultrafast Rectifiers

VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 200 V for high frequency switching , 25 ns recovery, Tjmax = 175 °C
- SMPC (TO-277A) package with 1.1 mm low profile



Schottky Rectifiers

VSSAF5M6HM3 – High Current Density, High Voltage TMBS® Rectifier

- 5 A, 60 V Schottky rectifiers, high temperature, low leakage, high current density
- SlimSMA (DO-221AC) package with low profile of 0.95 mm and compatible pad layout to SMA (DO-220AC)



Ultrafast Rectifiers

VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 200 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



TVS

TPSMA Series – Surface-Mount PAR® Transient Voltage Suppressor With Wide Operating Temperature Range

- 400 W peak pulse power capability with a 10/1000 µs waveform, repetitive rate (duty cycle) of 0.01 %; up to 43 V breakdown voltage
- SMA (DO-214AC) package



Standard Rectifiers

SE20AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm



TVS

TPSMB Series – Surface-Mount PAR® Transient Voltage Suppressor With Wide Operating Temperature Range

- 600 W peak pulse power capability with a 10/1000 µs waveform, repetitive rate (duty cycle) of 0.01 % up to 43 V breakdown voltage
- SMB (DO-214AA) package



Ultrafast Rectifiers

VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (TO-219AB) package with < 1 mm low profile



Small Signal Schottky Diodes

BAT54 – Single and Dual Construction Protect Against Excessive Voltage

- Very low turn-on voltage and fast switching
- PN junction guard ring protects against excessive voltage, such as electrostatic discharges



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 200 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile



Small Signal Switching Diodes

BAV23C – Fast Switching Dual Diode With Common Cathode

- Silicon epitaxial planar diode



EXTERIOR LIGHTING REAR AND SIGNAL LED LIGHTS



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



48 VDC BOARDNET

**INTEGRATED STARTER GENERATORS (48 VDC)
DC/DC CONVERTERS, BIDIRECTIONAL (48 VDC)
HVAC (E-COMPRESSOR FOR 48 VDC)**

For technical questions within your region, please contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com



48 VDC BOARDNET INTEGRATED STARTER GENERATORS (48 VDC)



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Ultrafast Rectifiers

VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, $T_{jmax} = 175\text{ }^{\circ}\text{C}$
- SMF (TO-219AB) package with < 1 mm low profile



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 200 V for high frequency switching, 20 ns recovery, $T_{jmax} = 175\text{ }^{\circ}\text{C}$
- SlimSMA (DO-221AC) package with 1 mm low profile



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Ultrafast Rectifiers

VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 200 V for high frequency switching, 25 ns recovery, $T_{jmax} = 175\text{ }^{\circ}\text{C}$
- SMPC (TO-277A) package with 1.1 mm low profile



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Ultrafast Rectifiers

VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 200 V for high frequency switching, 22 ns recovery, $T_{jmax} = 175\text{ }^{\circ}\text{C}$
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Small Signal Schottky Diodes

BAT46W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Very low turn-on voltage and fast switching
- Protected by a PN junction guard ring against excessive voltage such as electrostatic discharges



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, $T_{jmax} = 175\text{ }^{\circ}\text{C}$
- SMPD (TO-263AC) package with 1.3 mm low profile



Small Signal Switching Diodes

1N4448W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Silicon epitaxial planar diode
- Fast switching diode



48 VDC BOARDNET INTEGRATED STARTER GENERATORS (48 VDC)



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of $\pm 2.5\%$
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



48 VDC BOARDNET DC/DC CONVERTERS, BIDIRECTIONAL (48 VDC)



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2×8 A, 200 V for high frequency switching, 27 ns recovery, $T_{jmax} = 175$ °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Standard Rectifiers

SE20AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm



TVS

P6SMB Series – Surface-Mount TransZorb® Transient Voltage Suppressor

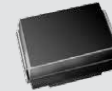
- 600 W uni- and bidirectional TVS with up to 540 V breakdown voltage, AEC-Q101 qualified
- SMB (DO-214AA) package



Ultrafast Rectifiers

VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, $T_{jmax} = 175$ °C
- SMF (TO-219AB) package with < 1 mm low profile



TVS

SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 200 V for high frequency switching, 20 ns recovery, $T_{jmax} = 175$ °C
- SlimSMA (DO-221AC) package with 1 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Ultrafast Rectifiers

VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2×3 A, 200 V for high frequency switching, 25 ns recovery, $T_{jmax} = 175$ °C
- SMPC (TO-277A) package with 1.1 mm low profile



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Ultrafast Rectifiers

VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2×4 A, 200 V for high frequency switching, 22 ns recovery, $T_{jmax} = 175$ °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Small Signal Switching Diodes

1N4448W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Silicon epitaxial planar diode
- Fast switching diode



48 VDC BOARDNET DC/DC CONVERTERS, BIDIRECTIONAL (48 VDC)



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- 500 mW power dissipation, excellent thermal characteristics, R_{thJA} 130 k/W
- Symmetrical leads are wave and reflow solderable



Small Signal Schottky Diodes

BAT46W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Very low turn-on voltage and fast switching
- Protected by a PN junction guard ring against excessive voltage such as electrostatic discharges



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable





48 VDC BOARDNET HVAC (E-COMPRESSOR FOR 48 VDC)



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



Ultrafast Rectifiers

VS-16CDH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

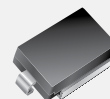
- 2 × 8 A, 200 V for high frequency switching, 27 ns recovery, Tjmax = 175 °C
- SMPD (TO-263AC) package with 1.3 mm low profile



Standard Rectifiers

SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout



TVS

SM5S10AT thru SM5S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

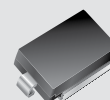
- 5000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Ultrafast Rectifiers

VS-1EFH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 1 A, 200 V for high frequency switching, 17 ns recovery, Tjmax = 175 °C
- SMF (TO-219AB) package with < 1 mm low profile



TVS

SM6S10AT thru SM6S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

- 6000 W clamping power rating for ISO16750-2:2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Ultrafast Rectifiers

VS-2EJH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 3 A, 200 V for high frequency switching, 20 ns recovery, Tjmax = 175 °C
- SlimSMA (DO-221AC) package with 1 mm low profile



TVS

SM8S10AT thru SM8S43AT – High Power Density Uni-Directional TVS for Power Line Load Dump

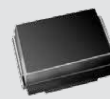
- 8000 W clamping power rating for ISO16750-2: 2012 Pulse a
- High clamping power capability for load dump protection and freewheeling



Ultrafast Rectifiers

VS-6CSH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 3 A, 200 V for high frequency switching , 25 ns recovery, Tjmax = 175 °C
- SMPC (TO-277A) package with 1.1 mm low profile



TVS

SMC3K Series – High Power Density Bidirectional TVS for Power Line Protection

- 3000 W clamping power rating for ISO16750-2:2012 Pulse b
- Designed for the protection of centralized load dump suppression powertrains



Ultrafast Rectifiers

VS-8CVH02HM3 – High Current Density, Soft Recovery, FRED Pt® Ultrafast Diode

- 2 × 4 A, 200 V for high frequency switching, 22 ns recovery, Tjmax = 175 °C
- SlimDPAK (TO-252AE) package with 1.3 mm low profile



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable





48 VDC BOARDNET HVAC (E-COMPRESSOR FOR 48 VDC)



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of $\pm 2.5\%$
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



Small Signal Schottky Diodes

BAT46W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Very low turn-on voltage and fast switching
- Protected by a PN junction guard ring against excessive voltage such as electrostatic discharges



Small Signal Switching Diodes

1N4448W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Silicon epitaxial planar diode
- Fast switching diode



FULL HYBRID VEHICLES (HEVS)

ELECTRICAL MOTOR DRIVES (DC/AC)

For technical questions within your region, please contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com



FULL HYBRID VEHICLES (HEVs) ELECTRICAL MOTOR DRIVES (DC/AC)



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



Ultrafast Rectifiers

VS-ETH3007THN3 – High Current Density FRED Pt® Ultrafast Rectifiers in Through-Hole TO-220AC 2 Pin Package

- 30 A, 650 V, low Q_{rr} for high efficiency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, AEC-Q101 qualified



Standard Rectifiers

SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

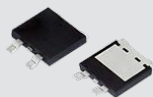
- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout



Ultrafast Rectifiers

VS-ETU3006SHM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 30 A, 600 V, low VF for high efficiency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, D²PAK (TO-263AB) package, AEC-Q101 qualified



Ultrafast Rectifiers

VS-16EDU06HM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 16 A, 600 V with low VF for high efficiency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, SMPD (TO-263AC) package with 1.3 mm low profile, AEC-Q101 qualified



Ultrafast Rectifiers

VS-ETX3007THN3 – High Current Density FRED Pt® Ultrafast Rectifiers in Through-Hole TO-220AC 2 Pin Package

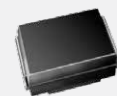
- 30 A, 600 V, lowest Q_{rr} for high frequency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, AEC-Q101 qualified



Ultrafast Rectifiers

VS-30CDU06HM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 30 A, 600 V, low VF for high efficiency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, SMPD (TO-263AC) package with 1.3 mm low profile, AEC-Q101 qualified



TVS

1.5SMC Series – Surface-Mount TransZorb® Transient Voltage Suppressor

- Up to 540 V breakdown voltage, available in uni-directional or bidirectional, high voltage TVS
- SMC (DO-214AB) package, AEC-Q101 qualified



Ultrafast Rectifiers

VS-ETH1506SHM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 15 A, 600 V with low Q_{rr} for high frequency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, D²PAK (TO-263AB) package, AEC-Q101 qualified



TVS

P6SMB Series – Surface-Mount TransZorb® Transient Voltage Suppressor

- 600 W uni- and bidirectional TVS with up to 540 V breakdown voltage, AEC-Q101 qualified
- SMB (DO-214AA) package



Ultrafast Rectifiers

VS-ETH3006SHM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 30 A, 600 V, low Q_{rr} for high frequency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, D²PAK (TO-263AB) package, AEC-Q101 qualified



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



FULL HYBRID VEHICLES (HEVs) ELECTRICAL MOTOR DRIVES (DC/AC)



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of $\pm 2.5\%$
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Small Signal Schottky Diodes

BAT46W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Very low turn-on voltage and fast switching
- Protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Small Signal Switching Diodes

1N4448W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Silicon epitaxial planar diode
- Fast switching diode



FULL ELECTRIC VEHICLES (FEVS)

**ELECTRICAL MOTOR DRIVES (DC/AC)
BATTERY MANAGEMENT AND DC/DC
ON-BOARD CHARGERS**

For technical questions within your region, please contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com



FULL ELECTRIC VEHICLES (FEVs) ELECTRICAL MOTOR DRIVES (DC/AC)



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



Ultrafast Rectifiers

VS-ETH3007THN3 – High Current Density FRED Pt® Ultrafast Rectifiers in Through-Hole TO-220AC 2-Pin Package

- 30 A, 650 V, low Q_{rr} for high efficiency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, AEC-Q101 qualified



Standard Rectifiers

SE30AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Low profile of 0.95 mm, compatible with SMA (DO-220AC) pad layout



Ultrafast Rectifiers

VS-ETU3006SHM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 30 A, 600 V, low VF for high efficiency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, D²PAK (TO-263AB) package, AEC-Q101 qualified



Ultrafast Rectifiers

VS-16EDU06HM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 16 A, 600 V with low VF for high efficiency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, SMPD (TO-263AC) package with 1.3 mm low profile, AEC-Q101 qualified



Ultrafast Rectifiers

VS-ETX3007THN3 – High Current Density FRED Pt® Ultrafast Rectifiers in Through-Hole TO-220AC 2-Pin Package

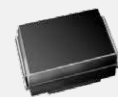
- 30 A, 600 V, lowest Q_{rr} for high frequency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, AEC-Q101 qualified



Ultrafast Rectifiers

VS-30CDU06HM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 30 A, 600 V, low VF for high efficiency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, SMPD (TO-263AC) package with 1.3 mm low profile, AEC-Q101 qualified



TVS

1.5SMC Series – Surface-Mount TransZorb® Transient Voltage Suppressor

- Up to 540 V breakdown voltage, available in uni-directional or bidirectional, high voltage TVS
- SMC (DO-214AB) package, AEC-Q101 qualified



Ultrafast Rectifiers

VS-ETH1506SHM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 15 A, 600 V with low Q_{rr} for high frequency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, D²PAK (TO-263AB) package, AEC-Q101 qualified



TVS

P6SMB Series – Surface-Mount TransZorb® Transient Voltage Suppressor

- 600 W uni- and bidirectional TVS with up to 540 V breakdown voltage, AEC-Q101 qualified
- SMB (DO-214AA) package



Ultrafast Rectifiers

VS-ETH3006SHM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 30 A, 600 V, low Q_{rr} for high frequency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, D²PAK (TO-263AB) package, AEC-Q101 qualified



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable





FULL ELECTRIC VEHICLES (FEVs) ELECTRICAL MOTOR DRIVES (DC/AC)



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of $\pm 2.5\%$
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Small Signal Schottky Diodes

BAT46W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Very low turn-on voltage and fast switching
- Protected by a PN junction guard ring against excessive voltage such as electrostatic discharges



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Small Signal Switching Diodes

1N4448W – Small Signal Schottky and Switching Diodes in SOD-123 Package

- Silicon epitaxial planar diode
- Fast switching diode



FULL ELECTRIC VEHICLES (FEVs) BATTERY MANAGEMENT AND DC/DC



Standard Rectifiers

MSE1P Series – Miniature-Package Rectifiers With High ESD Capability for Rail to Rail Signal Line Protection

- High ESD voltage, current density, and surge current capability
- MicroSMP (DO-219AD) package with 0.65 mm low profile saves space



Ultrafast Rectifiers

VS-ETH3007THN3 – High Current Density FRED Pt® Ultrafast Rectifiers in Through-Hole TO-220AC 2-Pin Package

- 30 A, 650 V, low Q_{rr} for high efficiency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, AEC-Q101 qualified



Standard Rectifiers

SE20AF Series – High Current Density Rectifiers With High ESD Capability for Power Line Protection

- High ESD voltage, current density, and surge current capability
- Compatible pad layout to SMA (DO-220AC) with low profile of 0.95 mm



Ultrafast Rectifiers

VS-ETU3006SHM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 30 A, 600 V, low V_F for high efficiency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, D²PAK (TO-263AB) package, AEC-Q101 qualified



Ultrafast Rectifiers

VS-16EDU06HM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 16 A, 600 V with low V_F for high efficiency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, SMPD (TO-263AC) package with 1.3 mm low profile, AEC-Q101 qualified



Ultrafast Rectifiers

VS-ETX3007THN3 – High Current Density FRED Pt® Ultrafast Rectifiers in Through-Hole TO-220AC 2-Pin Package

- 30 A, 600 V, lowest Q_{rr} for high frequency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, AEC-Q101 qualified



Ultrafast Rectifiers

VS-30CDU06HM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 30 A, 600 V, low V_F for high efficiency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, SMPD (TO-263AC) package with 1.3 mm low profile, AEC-Q101 qualified



TVS

TA6F Series – Surface-Mount PAR® Transient Voltage Suppressor for High Temperature Stability and High Reliability Conditions

- $T_j = 185 \text{ }^\circ\text{C}$, suitable for high reliability conditions and automotive applications
- SlimSMA (DO-221AC) package with 0.95 mm low profile, compatible pad layout to SMA (DO-220AC)



Ultrafast Rectifiers

VS-ETH1506SHM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 15 A, 600 V with low Q_{rr} for high frequency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, D²PAK (TO-263AB) package, AEC-Q101 qualified



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Ultrafast Rectifiers

VS-ETH3006SHM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 30 A, 600 V, low Q_{rr} for high frequency OBC
- Soft recovery, $T_j \text{ max} = 175 \text{ }^\circ\text{C}$, D²PAK (TO-263AB) package, AEC-Q101 qualified



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



FULL ELECTRIC VEHICLES (FEVs) BATTERY MANAGEMENT AND DC/DC



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of $\pm 2.5\%$
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



Small Signal Schottky Diodes

SD103AWS – Ideal for Fast Switching and Low Logic Level Applications

- Metal on silicon Schottky diode protected by PN junction guard ring bullet
- Low forward voltage drop and fast switching ideal for protection of MOS devices, steering, biasing, and coupling diodes



Small Signal Switching Diodes

BAV21WS – Fast Switching Diode for General Purpose

- Silicon epitaxial planar diode



FULL ELECTRIC VEHICLES (FEVs) ON-BOARD CHARGERS



Ultrafast Rectifiers

VS-30CDU06HM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 30 A, 600 V, low VF for high efficiency OBC
- Soft recovery, Tjmax = 175 °C, SMPD (TO-263AC) package with 1.3 mm low profile, AEC-Q101 qualified



Ultrafast Rectifiers

VS-ETH3006SHM3 – High Current Density FRED Pt® Ultrafast Rectifiers

- 30 A, 600 V, low Qrr for high frequency OBC
- Soft recovery, Tjmax = 175 °C, D²PAK (TO-263AB) package, AEC-Q101 qualified



Ultrafast Rectifiers

VS-ETH3007THN3 – High Current Density FRED Pt® Ultrafast Rectifiers in Through-Hole TO-220AC 2-Pin Package

- 30 A, 650 V, low Qrr for high efficiency OBC
- Soft recovery, Tj max = 175 °C, AEC-Q101 qualified



Ultrafast Rectifiers

VS-ETX3007THN3 – High Current Density FRED Pt® Ultrafast Rectifiers in Through-Hole TO-220AC 2-Pin Package

- 30 A, 600 V, lowest Qrr for high frequency OBC
- Soft recovery, Tj max = 175 °C, AEC-Q101 qualified



TVS

1.5SMC Series – Surface-Mount TransZorb® Transient Voltage Suppressor

- Up to 540 V breakdown voltage, available in uni-directional or bidirectional, high voltage TVS
- SMC (DO-214AB) package, AEC-Q101 qualified



TVS

P6SMB Series – Surface-Mount TransZorb® Transient Voltage Suppressor

- 600 W uni- and bidirectional TVS with up to 540 V breakdown voltage, AEC-Q101 qualified
- SMB (DO-214AA) package



Zener Diodes

BZD27B Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- 2 % Zener voltage tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27B-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free, 2 % tolerance
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Symmetrical leads are wave and reflow solderable



Zener Diodes

BZD27C-M Series – Zener Diodes in Low Profile SMF (DO-219AB) Package With Surge Current Specification

- 43 breakdown voltages from 3.6 V to 200 V
- Halogen free
- Symmetrical leads are wave and reflow solderable



Zener Diodes

PLZ Series – 500 mW Zener Diodes in Low Profile MicroSMF (DO-219AC) Package Provide Voltage Stabilization

- Very tight Zener voltage tolerances of ± 2.5 %
- ESD and surge rated
- Symmetrical leads are wave and reflow solderable



Small Signal Schottky Diodes

SD103AWS – Ideal for Fast Switching and Low Logic Level Applications

- Metal on silicon Schottky diode protected by PN junction guard ring bullet
- Low forward voltage drop and fast switching ideal for protection of MOS devices, steering, biasing, and coupling diodes



FULL ELECTRIC VEHICLES (FEVs) ON-BOARD CHARGERS



Small Signal Switching Diodes

BAV21WS – Fast Switching Diode for General Purpose

- Silicon epitaxial planar diode



NETWORKS

CAN BUS, LIN BUS, FLEX BUS

For technical questions within your region, please contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com



NETWORKS

CAN BUS, LIN BUS, FLEX BUS



ESD Protection

GSOTxx-Series – 1-Line Uni-Directional Protection Diode in SOT23 Package

- Working range from 3 V up to 36 V; ± 30 kV contact discharge; ± 30 kV air discharge
- Very common SOT23 package



ESD Protection

VCUT05E1-SD0 – Uni-Directional ESD Protection Diode in Tiny CLP0603 Package

- Working range of ± 5.5 V; low leakage current $< 0.1 \mu\text{A}$; low load capacitance $\text{CD} < 14 \text{ pF}$
- CLP0603 package is one of the smallest in the industry; low profile of 0.27 mm and uses 3 \times less board space than 1006 case size



ESD Protection

GSOTxxC-Series – 2-Line Uni-Directional Protection Diode in SOT23 Package

- Working range from 3 V up to 36 V; ± 30 kV contact discharge; ± 30 kV air discharge
- Very common SOT23 package



ESD Protection

VLIN1616-02G – 1-Line Bidirectional Protection Diode in Small-Size SOD323 Package

- Working range of ± 16 V; low leakage current $\text{IR} < 0.05 \mu\text{A}$
- Low load capacitance $\text{CD} < 24 \text{ pF}$
- LIN BUS related performance in smallest SOD323 package



ESD Protection

SMF-Series – Uni-Directional ESD Protection Diode in Low Profile SMF (DO-219AB)

- Devices offer low 1 mm profile, low noise technology, fast response times
- Symmetrical leads are wave and reflow solderable



ESD Protection

VLIN1626-02G – 1-Line Bidirectional Protection Diode in Small-Size SOD323 Package

- Low load capacitance of 15.5 pF typical and 18 pF maximum
- Compact SOD-323 package measures only 1.95 mm x 1.5 mm with low 0.95 mm profile



ESD Protection

VBUS05B1-SD0 – Uni-Directional low Cap ESD Protection Diode in Tiny CLP0603 Package

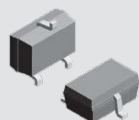
- Capacitance down to 0.29 pF typical
- CLP0603 package is one of the smallest in the industry; low profile of 0.27 mm and uses 3 \times less board space than 1006 case size



ESD Protection

VLIN26A1-03G – 1-Line Bidirectional Protection Diode in Small-Size SOT323 Package

- Working range of ± 26.5 V; low leakage current $\text{IR} < 0.05 \mu\text{A}$
- Low load capacitance $\text{CD} < 13 \text{ pF}$
- LIN BUS related performance in smallest SOT323 package



ESD Protection

VCAN26A2-03G – 2-Line Bidirectional Protection Diode in Small-Size SOT323 Package

- Working range of ± 26.5 V; low leakage current $\text{IR} < 0.05 \mu\text{A}$
- Low load capacitance $\text{CD} < 13 \text{ pF}$
- CAN BUS related performance in smallest SOT323 package



ESD Protection

VLIN2626-02G – 1-Line Bidirectional Protection Diode in Small-Size SOD323 Package

- Working range of ± 26.5 V; low leakage current $\text{IR} < 0.05 \mu\text{A}$
- Low load capacitance $\text{CD} < 16 \text{ pF}$
- LIN BUS related performance in smallest SOD323 package



ESD Protection

VCAN26A2-03S – 2-Line Bidirectional Protection Diode in SOT23 Package

- Working range of ± 26.5 V; low leakage current $\text{IR} < 0.05 \mu\text{A}$
- Low load capacitance $\text{CD} < 13 \text{ pF}$
- Very common SOT23 package



ESD Protection

VTVS-Series – Uni-Directional ESD Protection Diode in Low Profile SMF (DO-219AB)

- Feature a 2 % breakdown voltage tolerance, low 1 mm profile, low noise technology, and fast response times
- Symmetrical leads are wave and reflow solderable





The Art of Diodes and Rectifiers

DO-218AC •FR107 TYS •Standard Rectifiers	D-PAK (TO-263AB) •FR107 PPS •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •TMS107 •Universal Rectifiers	D-PAK (TO-252AA) •FR107 PPS •HVFR107 •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •TMS107 •Universal Rectifiers	eSMP® Series - SMPD (TO-263AC) •FR107 PPS •Standard Rectifiers •TMS107 •Universal Rectifiers	eSMP® Series - SlimDPAK (TO-252AE) •FR107 PPS •Standard Rectifiers •TMS107 •Universal Rectifiers	eSMP® Series - SMPC (TO-277A) •Schottky Rectifiers •HVFR107 •Standard Rectifiers •Standard Recovery Rectifiers •TMS107 •TMS107 TYS •TMS107 TYS •Universal Rectifiers	eSMP® Series - SMPA (DO-221BC) •TMS107 •Standard Rectifiers	eSMP® Series - SlimSMA (DO-221AC) •FR107 PPS •HVFR107 TYS •Standard Rectifiers •TMS107 TYS •TMS107 TYS •Universal Rectifiers	eSMP® Series - SMP (DO-220AA) •Schottky Rectifiers •Standard Rectifiers •Standard Recovery Rectifiers •TMS107 •TMS107 TYS •TMS107 TYS •Universal Rectifiers	eSMP® Series - SMF (DO-219AB) •ESD Protection Diodes •FR107 PPS •Schottky Rectifiers •Standard Recovery Rectifiers •TMS107 •TMS107 TYS •TMS107 TYS •Universal Rectifiers	eSMP® Series - MicroSMP (DO-219AD) •Schottky Rectifiers •Standard Recovery Rectifiers •TMS107 •TMS107 TYS •Universal Rectifiers	eSMP® Series - MicroSMF (DO-219AC) •Zener Diodes	SMC (DO-214AB) •FR107 PPS •HVFR107 TYS •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •TMS107 •TMS107 TYS •TMS107 TYS •Universal Rectifiers	SMB (DO-214AA) •Schottky Rectifiers •FR107 PPS •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •TMS107 •TMS107 TYS •Universal Rectifiers	SMA (DO-214AC) •Schottky Rectifiers •FR107 PPS •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •TMS107 •TMS107 TYS •Universal Rectifiers	Light About eSMP® Enhanced Surface Mount Power Packages Fast Efficient Small
GF1 (DO-214BA) •Standard and Fast Recovery Rectifiers	DFS •Bridge Rectifiers	Low Profile DFS •Bridge Rectifiers	MBSL •Bridge Rectifiers	MBS (TO-269AA) •Bridge Rectifiers	SOD-123 •Schottky Diodes •Schottky Diodes •Zener Diodes	SOD-323 •ESD Protection Diodes •Schottky Diodes •Switching Diodes •Zener Diodes	SOD-523 •ESD Protection Diodes •Schottky Diodes •Zener Diodes	SOT-23 •ESD Protection Diodes •Schottky Diodes •Switching Diodes •Zener Diodes	SOT-323 •ESD Protection Diodes	MELF (DO-213AB) •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •TMS107 TYS •Universal Rectifiers	MELF (DO-213AA) •Standard and Fast Recovery Rectifiers •TMS107 •Universal Rectifiers	MELF (DO-213AB) Glass •Zener Diodes	MiniMELF (SOD-80) •Schottky Diodes •Switching Diodes •Zener Diodes	QuadroMELF (SOD-80) •Schottky Diodes •Switching Diodes •Zener Diodes	MicroMELF •Schottky Diodes •Switching Diodes •Zener Diodes
FlatPAK 5x6 Single and Dual •FR107 PPS •TMS107	LLP2510-10M •ESD Protection Diodes	LLP1713-9L •ESD Protection Diodes	LLP75-4L •ESD Protection Diodes	LLP75-6L •ESD Protection Diodes	LLP75-7L •ESD Protection Diodes	LLP1010-6L •ESD Protection Diodes	LLP1010-5L •ESD Protection Diodes	LLP1006-3L •ESD Protection Diodes	LLP1006-2L •ESD Protection Diodes	CLP1608-2L •Schottky Rectifiers	CLP1406-2L •Schottky Rectifiers	CLP1007-5L •ESD Protection Diodes	CLP1006-2L •Schottky Rectifiers	CLP0603-2L •ESD Protection Diodes	CLP0603-2M •Schottky Rectifiers
ITO-220AB •FR107 PPS •Schottky Rectifiers •TMS107 •Universal Rectifiers	ITO-220AC •FR107 PPS •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •TMS107 •Universal Rectifiers	TO-220AC 2L •FR107 PPS •HVFR107 •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •TMS107 •Universal Rectifiers	TO-220AB •FR107 PPS •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •TMS107 •Universal Rectifiers	TO-220AC •FR107 PPS •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •TMS107 •Universal Rectifiers	TO-220 FullPAK •FR107 PPS •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •TMS107 •Universal Rectifiers	TO-247AD 2L •FR107 PPS •Standard and Fast Recovery Rectifiers	TO-247AD 3L •FR107 PPS •Standard and Fast Recovery Rectifiers	TO-247AC •FR107 PPS •HVFR107 •Schottky Rectifiers •Standard and Fast Recovery Rectifiers	TO-247AC Modified (2 pins) •FR107 PPS •HVFR107 •Schottky Rectifiers •Standard and Fast Recovery Rectifiers	TO-3P (TO-247AD) •Schottky Rectifiers •Universal Rectifiers	TO-262AA •FR107 PPS •Schottky Rectifiers •TMS107	P600 •FR107 TYS •Standard Rectifiers •TMS107 •TMS107 TYS	PowerTab® •FR107 PPS •Schottky Rectifiers •Standard and Fast Recovery Rectifiers	D-61-S D-61-S-SL D-61-S-SM •Schottky Rectifiers	Die and Wafer www.vishay.com/die-wafer
MBM •Bridge Rectifiers	DFM •Bridge Rectifiers	GBL / KBL •Bridge Rectifiers	GBU / KBU •Bridge Rectifiers	GSIB Bridge •Bridge Rectifiers	isoCink+™ •Bridge Rectifiers •BI Series •FB Series	WOG •Bridge Rectifiers •Standard and Fast Recovery Rectifiers	D-38 •Bridge Rectifiers	D-44 •Bridge Rectifiers	D-72 •Bridge Rectifiers	GBPC Bridge •Bridge Rectifiers	D-34 •Bridge Rectifiers	D-63 •Bridge Rectifiers	DO-41 (DO-204AL) •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •TMS107 TYS •Universal Rectifiers	DO-15 (DO-204AC) •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •TMS107 TYS •Universal Rectifiers	DO-201AD •Schottky Rectifiers •Standard and Fast Recovery Rectifiers •Universal Rectifiers
A-PAK (DO-200AA) Hermetically Sealed •Standard and Fast Recovery Rectifiers	E-PAK (TO-200AB) Hermetically Sealed •Standard and Fast Recovery Rectifiers	B-PAK (DO-200AB) Hermetically Sealed •Standard and Fast Recovery Rectifiers	K-PAK (DO-200AC) Hermetically Sealed •Standard and Fast Recovery Rectifiers	DO-5 (DO-203AB) Plastic •Standard Rectifiers	DO-8 (DO-205AA) Hermetically Sealed •Standard Rectifiers	DO-9 (DO-205AB) DO-30 (DO-205AC) Hermetically Sealed •Standard and Fast Recovery Rectifiers	B-8 Hermetically Sealed •Standard Rectifiers	DO-5 (DO-203AB) Hermetically Sealed •Standard and Fast Recovery Rectifiers	DO-4 (DO-203AA) Hermetically Sealed •Standard and Fast Recovery Rectifiers	1.SKE •TMS107 TYS	MPG06 •FR107 TYS •Standard and Fast Recovery Rectifiers	DO-35 Hermetically Sealed •Zener Diodes	DO-41 Hermetically Sealed •Zener Diodes	SOD-57 •Anastatic Rectifiers •Zener Diodes	SOD-64 •Anastatic Rectifiers •Zener Diodes

eSMP® Series

SMPD (TO-263AC) 12.63 mm x 10 mm x 1.7 mm	SlimDPAK (TO-252AE) 9.1 mm x 4.2 mm x 1.3 mm	SMPD (TO-277A) 8.7 mm x 4.8 mm x 1.1 mm	SMPA (DO-221BC) 6.2 mm x 2.5 mm x 0.95 mm	SlimSMA (DO-221AC) 6.2 mm x 2.8 mm x 0.95 mm	SMP (DO-220AA) 6.8 mm x 2.8 mm x 1 mm	SMF (DO-219AB) 6.7 mm x 1.8 mm x 0.98 mm	MicroSMP (DO-219AD) 6.7 mm x 1.3 mm x 0.85 mm	MicroSMF (DO-219AC) 6.2 mm x 1.3 mm x 0.85 mm	FlatPAK 5x6 6.5 mm x 6.2 mm x 0.98 mm	CLP1608-2L 11.6 mm x 6.8 mm x 0.29 mm	CLP1406-2L 11.4 mm x 6.8 mm x 0.29 mm	CLP1006-2L 11.4 mm x 6.8 mm x 0.29 mm	CLP0603-2M 6.8 mm x 4.3 mm x 0.27 mm
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For technical questions within your region, please contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com

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EMI Filter
High Power
Surface-Mount
Standard Recovery
Halogen-Free

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Automotive
Zener
FlipKY®
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Space-Saving
FRED Pt®
Bridge

Diodes

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Medium Power
Industrial
Telecom
HEXFRED®
Green
Fast Recovery
Power Package
Low Forward Voltage Drop
Low Profile
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