

Current Limit SW 1-IN 1-OUT to 135A Automotive 8-Pin(7+Tab) Octapak T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [STMicroelectronics, Inc](#)

Package/Case: Octapak-7

Product Type: Switches

Lifecycle: Active

General Description

The device is a single channel high-side driver manufactured using ST proprietary VIPower® technology and housed in the Octapak package. The device is designed to drive 12 V automotive grounded loads through a 3 V and 5 V CMOS-compatible interface, and to provide protection and diagnostics. The device integrates advanced protective functions such as load current limitation, overload active management by power limitation and overtemperature shutdown. A combination of INPUT and FR_DIAG pins latches the output in case of fault, disables the latch-off functionality and enables OFF-state diagnostic.

Key Features

AEC-Q100 qualified

Extreme low voltage operation for deep cold cranking applications (compliant with LV124, revision 2013)

General

Single channel smart high-side driver with CurrentSense analog feedback

Very low standby current

Compatible with 3 V and 5 V CMOS outputs

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Diagnostic functions

Overload and short to ground (power limitation) indication

Thermal shutdown indication

OFF-state open-load detection

Output short to VCC detection

Overload and short to ground (power limitation) indication

~~Thermal shutdown indication~~

OFF-state open-load detection
 Output short to VCC detection
 Protections
 Undervoltage shutdown
 Overvoltage clamp
 Load current limitation
 Self limiting of fast thermal transients
 Loss of ground and loss of VCC
 Configurable latch-off on overtemperature or power limitation
 Reverse battery
 Electrostatic discharge protection
 Undervoltage shutdown
 Overvoltage clamp
 Load current limitation
 Self limiting of fast thermal transients
 Loss of ground and loss of VCC
 Configurable latch-off on overtemperature or power limitation
 Reverse battery
 Electrostatic discharge protection

Recommended For You

VNS050JTR-E

STMicroelectronics, Inc

HSSOP12

VNLD5160TR-E

STMicroelectronics, Inc

SOP8

VND5T050AKTR-E

STMicroelectronics, Inc

SSOP24

VNS3NV04PTR-E

STMicroelectronics, Inc

SOP8

VND7140AJ12TR

STMicroelectronics, Inc

HSSOP12

VN330SP-E

STMicroelectronics, Inc

HSOP10

VNL5050N3TR-E

STMicroelectronics, Inc

SOT-223

VNB35NV04TR-E

STMicroelectronics, Inc

TO-263

VN7007AHTR

STMicroelectronics, Inc

TO252-7

VNV35N07

STMicroelectronics, Inc

HSOP10

VND5050AJTR-E

STMicroelectronics, Inc

HSSOP12

VND5E160AJTR-E

STMicroelectronics, Inc

HSSOP12

VNN7NV04PIR-E

STMicroelectronics, Inc

SOT223

VN7004CLHR

STMicroelectronics, Inc

TO-252

VND10N06TR-E

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TO252