

Driver 13.5A 2-OUT High Side Inv/Non-Inv 8-Pin DSO T/R

Manufacturer: [Infineon Technologies Corporation](#)

Package/Case: PG-DSO-8

Product Type: Drivers

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

[Inquiry](#)

General Description

EiceDRIVER Compact single-channel isolated gate driver with 5.5 A typical sinking and sourcing peak output current in DSO-8 wide-body package with large creepage distance (>8 mm) for IGBTs, MOSFETs and SiC MOSFETs. 1ED3123MC12H belongs to the EiceDRIVER Compact 1ED31xx family (X3 Compact family). 1ED3123 offers separate sink and source output, accurate and stable timing, active shutdown to ensure a safe IGBT off-state in case the output chip is not connected to the power, short-circuit clamping to limit the gate voltage during short circuit. The driver can operate over a wide supply voltage range, either unipolar or bipolar.

Key Features

EiceDRIVER Compact single channel isolated gate driver 1ED31xx family (X3 Compact family)

For use with 650 V/1200 V/1700 V/2300 V IGBTs, Si and SiC MOSFETs

2300 V functional offset voltage capable for selected applications

Galvanically isolated coreless transformer gate driver

14 A typical sinking and sourcing peak output current

40 V absolute maximum output supply voltage

90 ns propagation delay with 30 ns input filter

High common-mode transient immunity CMTI >200 kV/μs

Separate source and sink outputs

Short-circuit clamping and active shutdown

DSO-8 300 mil wide-body package with large creepage distance (>8 mm)

8 V/10 V undervoltage lockout (UVLO) protection with hysteresis

Integrated filters reduce the need of external filters

Tight IC-to-IC turn on propagation delay matching (7 ns max.), tolerance improves application robustness without variations due to aging, current, and temperature

Suitable for operation at high ambient temperature and in fast switching applications

UL 1577>

IEC 60747-17/VDE 0884-11 with>

Tight propagation delay allows minimum deadtime improving system efficiency and decreasing harmonic distortion

The precise threshold and timings, combined with UL 1577 certification enable superior application safety

High isolation capability, can be used in 1500 V DC solar inverter application

Application

Fast EV charging

Motor control and drives

Server power supply

Solutions for photovoltaic energy systems

Uninterruptible Power Supplies (UPS)

Recommended For You

1ED020112-F2

Infineon Technologies Corporation

SOP16

1EDN7550UXTSA1

Infineon Technologies Corporation

TSNP6

BIS70021EPPXUMA1

Infineon Technologies Corporation

TSDSO-14

TLF50211ELXUMA2

Infineon Technologies Corporation

SSOP-14

1EDN7512BXTSA1

Infineon Technologies Corporation

SOT23-5

1EDN7511BXUSA1

Infineon Technologies Corporation

SOT23-6

1EDC40I12AHXUMA1

Infineon Technologies Corporation
PG-DSO-8-59

BTS70041EPPXUMA1

Infineon Technologies Corporation
TSSOP14

1ED020I12FA2XUMA2

Infineon Technologies Corporation
PG-DSO-20

BTT60I01ERAXUMA1

Infineon Technologies Corporation
PG-TDSO-14

BTS70101EPAXUMA1

Infineon Technologies Corporation
TSSOP14

BTS70081EPPXUMA1

Infineon Technologies Corporation
PG-TSDSO-14

BTS50901EJAXUMA1

Infineon Technologies Corporation
SOP8

TLS810B1EJV50XUMA1

Infineon Technologies Corporation
SOP8

BTS409L1E3062ABUMA1

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