

Galvanic Isolated MOSFET Power Driver, 2.4A 16-Pin, DSO-16-15

Manufacturers	Infineon Technologies Corporation
Package/Case	PG-DSO-16
Product Type	Electromechanical
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for 1ED020I12F2XUMA1 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

1ED020I12-F2 is a galvanic isolated single channel gate driver in DSO-16 wide body package that provides an output current capability of typically 2 A. All logic pins are 5V CMOS compatible and could be directly connected to a microcontroller. The data transfer across galvanic isolation is realized by the integrated Coreless Transformer Technology. The 1ED-F2 provides several protection features like IGBT desaturation protection, active Miller clamping, and active shut down.

Features

Single channel isolated gate driver IC (1ED-F2)

For 600 V/1200 V IGBTs, MOSFETs, SiC MOSFETs, discrete and modules

2 A rail-to-rail typical output current

Precise DESAT protection, VCEsat detection

Active Miller Clamp

Active shutdown and Short circuit clamping

28 V absolute Max. output supply voltage

170/165 ns typ. propagation delay

12/11 V output UVLO

Tight propagation-delay matching: tolerance improves application robustness without variations due to aging, current, and temperature

Precise, integrated filters reduce propagation-delay variation over a wide range of operating conditions; reduce the need of external filters

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

Wide body package with 8 mm creepage distance

Immunity against negative and positive transients, increases reliability of the end product

Low power losses for switching frequencies into MHz range

Application

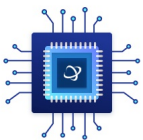
Motor control and drives

Solutions for solar energy systems

Commercial, construction and agricultural vehicles (CAV)

Uninterruptible power supply (UPS)

Related Products



[1EDI60H12AHXUMA1](#)

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PG-DSO-16



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[ISO1H813TXUMA1](#)

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PG-TSSOP-48