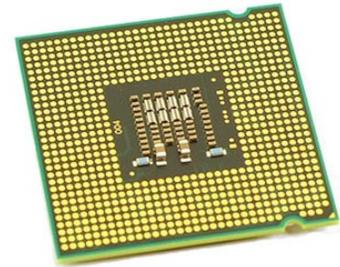


Fast, robust, dual-channel, functional isolated MOSFET gate drivers with accurate and stable timing

Manufacturers	Infineon Technologies Corporation
Package/Case	PG-TFLGA-13
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for 2EDF7275KXUMA2 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The EiceDRIVER™ 2EDF72x5K is a functional isolated gate driver designed for high-performance DC-DC medium-voltage, half- and full-bridge topologies. The 4A/8A source/sink currents, combined with a low 37ns propagation delay and the highly accurate timing over both temperature and production, are the perfect fit for high-frequency PWM control with tightest possible dead time windows, delivering highest conversion efficiency.

The very low impedance of the gate driver output stages keeps the driver package and PCB cooler, which is a key benefit in high density power brick converters. The device's 4V UVLO and dead time control ensure that OptiMOS™ half-bridge MOSFETs always run within their safe operating area. A CMTI of 150V/ns guarantees high robustness even for fast switching transients (di/dt) in the power loop. The EiceDRIVER™ 2EDF7235K includes programmable DTC (dead time control) and an inverted SLDOP mode. All devices can operate in low cost bootstrapped high side supply and come in a cost competitive, small form factor LGA13 5mm x 5mm package.

Features

Fast power switching with accurate timing

Optimized for area and low cost system BOM

Robust design against switching noise

Output- to-output channel isolation

Input-to-output channel isolation

Efficiency gain and lower losses

Improved thermal behavior at smaller form factor

Protection and safe operation

Flexible configurations

Regulatory safety

Enabling higher system efficiency and higher power density designs

Improving cost position, integration and mass manufacturability

Extending end-product lifetime by improving safe operation of power switches and reliable PWM communication and PWM signal chain in abnormal conditions

Lowering EMI by ground isolation, driver proximity to MOSFETs or use of Kelvin Source MOSFETs

Meeting all isolation requirements of standard DC-DC equipment

Application

Telecom DC-DC

Server

Industrial SMPS

UPS

Battery

EV-Charging

Related Products



[BTS442E2-E3062A](#)

Infineon Technologies Corporation

TO263



[SAK-C504-2E24M](#)

Infineon Technologies Corporation

MQFP-44



[BTS50452EKA](#)

Infineon Technologies Corporation

SOP-14



[BTT6030-2EKA](#)

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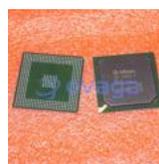
SOP-14



[BSP452E6327](#)

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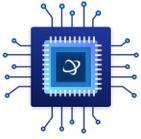
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BGA388



[BTT6030-2ERA](#)

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[BTS5030-2E](#)

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SOP-14