

650 V high-side and low-side gate driver with integrated bootstrap diode



Images are for reference only

[Inquiry](#)

Manufacturer: [Infineon Technologies Corporation](#)

Package/Case: SOP8

Product Type: Drivers

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

650 V high and low side high speed power MOSFET and IGBT gate driver with typical 0.29 source current, and 0.7 sink current in DSO-8 package. The DSO-14 package for bigger creepage is also available: 2ED21064S06J. Based on our SOI-technology, having excellent ruggedness and noise immunity against negative transient voltages on VS pin. No parasitic thyristor structures present in the device, hence no parasitic latch up at all temperature and voltage conditions.

Key Features

Operating voltages (VS node) upto + 650 V

Negative VS transient immunity of 100 V

Integrated ultra-fast, low resistance bootstrap diode, lower the BOM cost

Floating channel designed for bootstrap operation

Maximum supply voltage of 25 V

Independent under voltage lockout (UVLO) for both channels

200 ns propagation delay

HIN, LIN logic input

Logic operational up to -11 V on VS Pin

Negative voltage tolerance on inputs of -5 V

The floating channel can be used to drive an N-channel MOSFET, SiC MOSFET or IGBT in the high side configuration

Integrated bootstrap diode - Space saving, reduced BOM cost, smaller PCB at lower cost with simpler design

50% lower level-shift losses

Excellent ruggedness and noise immunity against negative transient voltages on VS pin

Application

AC-DC power supplies

Home appliances

Motor control and drives

Power tools

Recommended For You

2ED300C17-S

Infineon Technologies Corporation
MODULE

TLE94112ELXUMA1

Infineon Technologies Corporation
SSOP24

2ED020I12-FI

Infineon Technologies Corporation
SOP-18

BTS70202EPAXUMA1

Infineon Technologies Corporation
PG-TSDSO-14

BTS70802EPAXUMA1

Infineon Technologies Corporation
TSSOP14

2EDN7524FXTMA1

Infineon Technologies Corporation
SOP-8

2EDN7524GXTMA1

Infineon Technologies Corporation
WSO-8

BTS70082EPAXUMA1

Infineon Technologies Corporation
TSSOP14

2EDF7275KXUMA1

Infineon Technologies Corporation
PG-TFLGA-13-1

2ED020I12FAXUMA2

Infineon Technologies Corporation
PG-DSO-36-58

BTT61002ERAXUMA1

Infineon Technologies Corporation
SOP14

BTS71202EPAXUMA1

Infineon Technologies Corporation
TSSOP14

BTS72002EPAXUMA1

Infineon Technologies Corporation
TSDSO-14

BTF60702ERVXUMA1

Infineon Technologies Corporation
TDSO-14

BTT60302ERAXUMA1

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SOP-14