

Driver 1-OUT Low Side Non-Inv 8-Pin DSO T/R

Manufacturers

[Infineon Technologies Corporation](#)

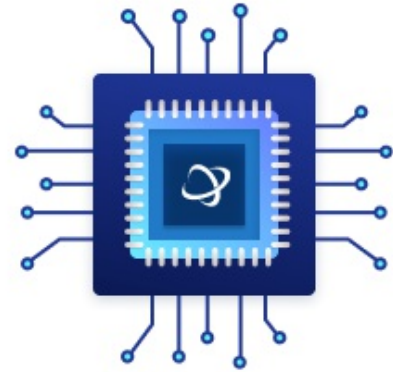
Package/Case

Product Type

Power Management ICs

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for 1ED44176N01FXUMA1 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

EiceDRIVERTM 25 V single-channel low-side non-inverting gate driver for MOSFET and IGBT with typical 0.8 A source and 1.75 A sink currents in a small 8-lead PG-DSO8 package.

Over-current protection is typically implemented by a current measurement with a comparator and multiple resistors and capacitors. 1ED44176N01F provides cost and space savings by integrating the comparator. The new low-side gate driver utilizes Infineon's proprietary latch immune CMOS technologies to enable a rugged monolithic construction while realizing best-in-class fault reporting accuracy with OCP threshold tolerance of +/-5%. In addition, Infineon's IC technology enables a small PG-DSO8 package by combining the fault output and enable functions into a single pin.

Evaluation board also available: EVAL-1ED44176N01F

Features

0.5 V Over-current threshold with accurate $\pm 5\%$ tolerance

Over-current detection with positive voltage input

Single pin for fault output and enable

Programmable fault clear time

Under voltage lockout

CMOS Schmitt-triggered inputs

3.3 V, 5 V and 15 V input logic compatible

Output in phase with input

Separate logic and power ground

2 kV ESD HBM

Integrated over-current protection and single-pin fault output and enable function provide potential space and cost savings

OCP threshold tolerance of $\pm 5\%$ provides accurate sensing

Flexible fault clear time set-up

Under-voltage lock out provides protection at low supply voltage

Industry standard package

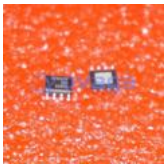
Application

Power supplies (SMPS)

Room air conditioners

Fast EV charging

Related Products



[IFX91041EJV](#)

Infineon Technologies Corporation
SOP8



[BTT6030-1ERA](#)

Infineon Technologies Corporation
SOP14



[1ED020I12-F](#)

Infineon Technologies Corporation
SOP-16



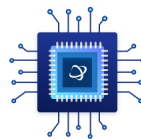
[1EDI60H12AH](#)

Infineon Technologies Corporation
SOP-8



[TLE7181EM](#)

Infineon Technologies Corporation
SOP14



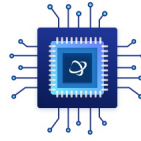
[1EDN8511B](#)

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[TLE7185-1E](#)

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SSOP-36



[1EDN7511B](#)

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