

Product Overview

NVMFD5C446NL: Dual N-Channel Power MOSFET 40V, 145A, 2.65mΩ

For complete documentation, see the data sheet.

Automotive Power MOSFET in a 5x6mm flat lead package designed for compact and efficient designs and including high thermal performance. Wettable Flank Option available for Enhanced Optical Inspection. AEC-Q101 Qualified MOSFET and PPAP capable suitable for automotive applications.

Features

- Small Footprint (5x6 mm)
- Low $r_{DS(on)}$
- Low Q_G and Capacitance
- NVMFD5C446NLWLF - Wettable Flank Option
- AEC-Q101 Qualified and PPAP Capable
- RoHS Compliant

Benefits

- Compact Design
- Minimize Conduction Loss
- Minimize Driver Losses
- Enhanced Optical Inspection

Applications

- Solenoid driver
- Low side / high side driver

End Products

- Automotive engine controllers
- Antilock braking systems

Part Electrical Specifications

Product	Compliance	Status	Channel Polarity	Configuration	$V_{SS(BRD)}$ Min (V)	$V_{GS(\text{th})}$ Max (V)	$V_{GS(\text{th})}$ Max (V)	I_D Max (A)	P_D Max (W)	$R_{DS(on)}$ Max @ $V_{GS} = 2.5$ V (mΩ)	$R_{DS(on)}$ Max @ $V_{GS} = 4.5$ V (mΩ)	$R_{DS(on)}$ Max @ $V_{GS} = 10$ V (mΩ)	Q_g Typ @ $V_{GS} = 4.5$ V (nC)	Q_g Typ @ $V_{GS} = 10$ V (nC)	C_{iss} Typ (pF)	Package Type
NVMFD5C446NLT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Dual	40	±20	2	149	125	-	Q1: 3.9, Q2: 3.9	Q1: 2.65, Q2: 2.65	16	54	3170	SO-8FL Dual / DFN-8
NVMFD5C446NLWFT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Dual	40	±20	2	149	125	-	Q1: 3.9, Q2: 3.9	Q1: 2.65, Q2: 2.65	16	54	3170	SO-8FL Dual / DFN-8

For more information please contact your local sales support at www.onsemi.com.

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