

NVTFS5C478NL

Single N-Channel Power MOSFET 40V, 26A, 14mΩ

Product Overview

For complete documentation, see the data sheet.

Automotive Power MOSFET in a 3x3mm 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 (3x3 mm)
- Low On-Resistance
- Low Capacitance
- NVTFS5C478NLWF - Wettable Flanks Product
- AEC-Q101 Qualified and PPAP Capable
- RoHS Compliant

Applications

- Reverser Battery protection
- Power switches (High Side Driver, Low Side Driver, H-Bridges etc.)
- Switching power supplies

Benefits

- Compact Design
- Minimize Conduction Losses
- Minimize Driver Losses
- Enhanced Optical Inspection
- Suitable for Automotive Applications

End Products

- Solenoid Driver – ABS, Fuel injection
- Motor Control – EPS, Wipers, Fans, Seats, etc.
- Load Switch – ECU, Chassis, Body

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channel Polarity	Configuration	$V_{DS}^{(BR)}$ Min (V)	V_{GS}^{Max} (V)	$V_{GS}^{(th)Max}$ (V)	I_D^{Max} (A)	P_D^{Max} (W)	$R_{DS(on)Max}$ @ $V_{GS} = 2.5V$ (mΩ)	$R_{DS(on)Max}$ @ $V_{GS} = 4.5V$ (mΩ)	$R_{DS(on)Max}$ @ $V_{GS} = 10V$ (mΩ)	Q_g^{Typ} @ $V_{GS} = 4.5V$ (nC)	Q_g^{Typ} @ $V_{GS} = 10V$ (nC)	C_{iss}^{Typ} (pF)	Package Type
NVTFS5C478NL TAG	0.3436		Active	N-Channel	Single	40	20	2	26	20	-	25	14	9	8	400	WDFN-8 / u8FL
NVTFS5C478NL WFTAG	0.425		Active	N-Channel	Single	40	20	2	26	20	-	25	14	9	8	400	WDFN W8 3.3x3.3, 0.65P (Full-Cu 8FL WF)