

Product Overview

NVTFS5C680NL: Single N-Channel Power MOSFET 60V, 20A, 26.5mΩ

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
- NVTFS5C680NLWF - Wettable Flanks Product
- AEC-Q101 Qualified and PPAP Capable
- RoHS Compliant

Benefits

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

Applications

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

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_{GSMax} (V)	$V_{GS(th)Max}$ (V)	I_DMax (A)	P_DMax (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
NVTFS5C680NLTAG		AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	60	20	2	20	20	-	42.5	26.5	14	5	327	WDF N-8 / u8FL
NVTFS5C680NLWFTAG		AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	60	20	2	20	20	-	42.5	26.5	14	5	327	WDF N-8 / u8FL

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

Created on: 7/10/2020