

Product Overview

NVMFS4C03N: Single N-Channel Power Logic Level MOSFET 30V, 159A, 1.7mΩ

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) for Compact Design
- Low $R_{DS(on)}$ to Minimize Conduction Losses
- Low QG and Capacitance to Minimize Driver Losses
- NVMFS4C03NWF - Wettable Flanks Option for Enhanced Optical Inspection
- AEC-Q101 Qualified and PPAP Capable
- RoHS Compliant

Applications

- Reverse battery protection
- DC-DC converter output driver

End Products

- HID and LED lighting
- Infotainment Power Supplies

Part Electrical Specifications

Product	Compliance	Status	Channel Polarity	Configuration	$V_{SS}^{(BR)D}$ 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
NVMFS4C03NT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	134	77	-	2.4	1.7	-	45.2	3071	SO-8FL / DFN-5
NVMFS4C03NWF1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	134	77	-	2.4	1.7	-	45.2	3071	SO-8FL / DFN-5

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

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