



Product Overview

NVMFS5C612NL: Power Automotive MOSFET 60V, 235A, 1.5 mOhm, Single N-Channel, SO8-FL, Logic Level.

For complete documentation, see the data sheet

Product Description

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	Benefits
<ul style="list-style-type: none"> Low QG and Gate capacitance Industry standard 5x6mm package Industry standard 5x6mm (small package) Best in-class FOM ($R_{DS(ON)} \times Q_G$) Low $R_{DS(on)}$ 	<ul style="list-style-type: none"> Minimize Switching Losses Compact Design and Standard footprint for direct drop-in Increased efficiency, lower power dissipation Minimize Conduction Losses

Applications

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

Part Electrical Specifications

Product	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 @ $V_{GS} = 2.5V$ (m)	$r_{DS(on)}$ Max @ $V_{GS} = 4.5V$ (m)	$r_{DS(on)}$ Max @ $V_{GS} = 10V$ (m)	Q_g Typ @ $V_{GS} = 4.5V$ (nC)	Q_g Typ @ $V_{GS} = 10V$ (nC)	Q_{gd} Typ @ $V_{GS} = 4.5V$ (nC)	Q_{tr} Typ (nC)	C_{iss} Typ (pF)	C_{oss} Typ (pF)	C_{rss} Typ (pF)	Package Type
NVMFS5C612NLT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	60	16	2	235	167		2.3	1.5	41	91	10.9	105	6660	2953	45	SO-8FL / DF N-5
NVMFS5C612NLT3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	60	16	2	235	167		2.3	1.5	41	91	10.9	105	6660	2953	45	SO-8FL / DF N-5
NVMFS5C612NLWFT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	60	16	2	235	167		2.3	1.5	41	91	10.9	105	6660	2953	45	SO-8FL / DF N-5
NVMFS5C612NLWFT3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	60	16	2	235	167		2.3	1.5	41	91	10.9	105	6660	2953	45	SO-8FL / DF N-5

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

Created on: 7/11/2015