



Product Overview

NVTFS5811NL: Power MOSFET 40V, 40A, 6.7 mOhm, Single N-Channel, u8FL, Logic Level.

For complete documentation, see the data sheet

Product Description

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

- Low on resistance
- High current capability
- 100% avalanche tested

Benefits

- Minimal conduction losses
- Robust load performance
- Safeguards against voltage overstress failures

Applications

- motor driver

End Products

- Automotive motor control

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
NVTFS5811NLTAG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	40	20	2.2	40	21		10	6.7	17	30	9	17	1570	215	157	u8FL / WD FN-8
NVTFS5811NLTWG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	40	20	2.2	40	21		10	6.7	17	30	9	17	1570	215	157	u8FL / WD FN-8
NVTFS5811NLWFTAG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	40	20	2.2	40	21		10	6.7	17	30	9	17	1570	215	157	u8FL / WD FN-8
NVTFS5811NLWFTWG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	40	20	2.2	40	21		10	6.7	17	30	9	17	1570	215	157	u8FL / WD FN-8

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

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