



Product Overview

NVMFS4C01N: Power MOSFET 30V, 319A, 0.9 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

- Small Footprint (5x6 mm) for Compact Design
- Low RDS(on) to Minimize Conduction Losses
- Low QG and Capacitance to Minimize Driver Losses
- NVMFS4C01NWF - Wettable Flanks Product
- AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb-Free, Halogen Free/BFR Free and are 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	$V_{DS(sat)}$ 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_{gd} Typ @ $V_{GS} = 10V$ (nC)	Q_{gd} Typ @ $V_{GS} = 4.5V$ (nC)	Q_{rr} Typ (nC)	C_{iss} Typ (pF)	C_{oss} Typ (pF)	C_{rss} Typ (pF)	Packaging Type
NVMFS4C01NT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	319	161		1.2	0.9	63	139	13	147	10144	5073	148	SO-8FL / DF N-5
NVMFS4C01NT3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	319	161		1.2	0.9	63	139	13	147	10144	5073	148	SO-8FL / DF N-5
NVMFS4C01NWFT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	319	161		1.2	0.9	63	139	13	147	10144	5073	148	SO-8FL / DF N-5
NVMFS4C01NWFT3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	319	161		1.2	0.9	63	139	13	147	10144	5073	148	SO-8FL / DF N-5

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

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