

## Product Overview

### NVTFS4C08N: Single N-Channel Power MOSFET 30V, 55A, 5.9mΩ

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

- Low On-Resistance
- Low Capacitance
- Optimized Gate Charge
- NVTFS4C08NWF - Wettable Flanks Product
- AEC-Q101 Qualified and PPAP capable
- RoHS Compliant

#### Benefits

- Minimize Conduction Losses
- Minimize Driver Losses
- Minimize Switching Losses
- Facilitates Automated Optical Inspection of Device-to-PCB Solder Joint
- Suitable for Automotive Applications

#### 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
NVTFS4C08NTAG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	55	31	-	9	5.9	7.8	18.2	1113	WDF N-8 / u8FL
NVTFS4C08NTWG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	55	31	-	9	5.9	7.8	18.2	1113	WDF N-8 / u8FL
NVTFS4C08NWFTAG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	55	31	-	9	5.9	7.8	18.2	1113	WDF N-8 / u8FL
NVTFS4C08NWFTWG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	55	31	-	9	5.9	7.8	18.2	1113	WDF N-8 / u8FL

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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