



## Product Overview

### NVTFS4C08N: Power MOSFET 30V, 55A, 5.9 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	Benefits
<ul style="list-style-type: none"> <li>Low on-resistance</li> <li>Low gate charge</li> <li>u8FL package with 3.3 x 3.3 mm footprint</li> <li>AEC-Q101 qualified</li> <li>Wettable Flank (WF) option</li> </ul>	<ul style="list-style-type: none"> <li>minimizes conduction losses</li> <li>minimizes switching losses</li> <li>very small footprint enabling smaller PCBs and modules</li> <li>suitable for automotive applications</li> <li>facilitates Automated Optical Inspection of device-to-PCB solder joint</li> </ul>

Applications	End Products
<ul style="list-style-type: none"> <li>Reverse battery protection</li> <li>DC-DC converter output driver</li> </ul>	<ul style="list-style-type: none"> <li>HID and LED lighting</li> <li>Infotainment Power Supplies</li> </ul>

#### 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 @ $V_{GS} = 2.5$ V (m)	$r_{DS(on)}$ Max @ $V_{GS} = 4.5$ V (m)	$r_{DS(on)}$ Max @ $V_{GS} = 10$ V (m)	$Q_g$ Typ @ $V_{GS} = 4.5$ V (nC)	$Q_g$ Typ @ $V_{GS} = 10$ V (nC)	$Q_{gd}$ Typ @ $V_{GS} = 4.5$ V (nC)	$Q_{tr}$ Typ (nC)	$C_{iss}$ Typ (pF)	$C_{oss}$ Typ (pF)	$C_{rss}$ 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	8.4	18.2	3.3	15.3	1113	702	39	u8FL / WD FN-8
NVTFS4C08NTWG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	55	31		9	5.9	8.4	18.2	3.3	15.3	1113	702	39	u8FL / WD FN-8
NVTFS4C08NWFTAG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	55	31		9	5.9	8.4	18.2	3.3	15.3	1113	702	39	u8FL / WD FN-8
NVTFS4C08NWFTWG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	55	31		9	5.9	8.4	18.2	3.3	15.3	1113	702	39	u8FL / WD FN-8

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