



## Product Overview

### NVTFS4C05N: Power MOSFET 30V, 102A, 3.6 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
- Low gate charge
- u8FL package
- AEC-Q101 Qualified

#### Benefits

- minimizes conduction losses
- minimizes switching losses
- very small footprint enabling smaller PCBs and modules
- 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	$V_{DS}$ Min (V)	$V_{GS}$ Max (V)	$V_{GS}$ Min (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)	$Q_{rr}$ Typ (nC)	$C_{iss}$ Typ (pF)	$C_{oss}$ Typ (pF)	$C_{rss}$ Typ (pF)	Package Type
NVTFS4C05NTAG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	102	72		5.1	3.6	14.5	31	5.5	34.4	1968	1224	71	u8FL / WD FN-8
NVTFS4C05NWFTAG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	30	20	2.2	102	72		5.1	3.6	14.5	31	5.5	34.4	1968	1224	71	u8FL / WD FN-8

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

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