



Product Overview

NVTFS5820NL: Power MOSFET 60V, 29A, 11.5 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 handling capability
- AEC-Q101 qualified
- 100% avalanche energy tested

Benefits

- Minimizes conduction losses
- Provides robust load drive performance
- Suitable for automotive systems
- Safeguards against voltage overstress failure

Applications

- Automotive motor control
- Automotive solenoid/relay driver
- Automotive lamp driver

End Products

- Automotive Engine Control Units
- Automotive Body Control Units

Part Electrical Specifications

Product	Compliance	Status	Channel Polarity	Configuration	$V_{DS(ESR)}$ 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_{rr} Typ (nC)	C_{iss} Typ (pF)	C_{oss} Typ (pF)	C_{rss} Typ (pF)	Package Type
NVTFS5820NLTAG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	60	20	2.3	29	21		15	11.5	15	28	8	15	1462	150	96	u8FL / WD FN-8
NVTFS5820NLTWG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	60	20	2.3	29	21		15	11.5	15	28	8	15	1462	150	96	u8FL / WD FN-8
NVTFS5820NLWFTAG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	60	20	2.3	29	21		15	11.5	15	28	8	15	1462	150	96	u8FL / WD FN-8
NVTFS5820NLWFTWG	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	60	20	2.3	29	21		15	11.5	15	28	8	15	1462	150	96	u8FL / WD FN-8

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

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