



Product Overview

NVD5890N: Power MOSFET 40V, 123A, 3.7 mOhm, Single N Channel, DPAK.

For complete documentation, see the data sheet

Product Description

Automotive Power MOSFET. 40V, 123A, 3.7 mOhm, Single N Channel, DPAK. AEC-Q101 Qualified MOSFET and PPAP capable suitable for automotive applications.

Features

- Low RDS(on)
- High current capability
- AEC-Q101 Qualified
- 100% Avalanche energy tested

Benefits

- Minimizes conduction losses
- Provides robust load driving performance
- Suitable for use in Automotive systems
- Safeguards against voltage overstress failure

Applications

- Motor Drivers
- Automotive Pump Drivers

End Products

- Automotive Braking systems
- Automotive Steering systems

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_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
NVD5890NT4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	40	20	3.5	123	107			3.7		74	16	40	4975	785	490	DPAK-3

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

Created on: 7/11/2015