



Product Overview

NVD5865NL: Power MOSFET 60V, 46A, 16 mOhm, Single N-Channel, DPAK, Logic Level.

For complete documentation, see the data sheet

Product Description

Automotive Power MOSFET. 60V, 46A, 16 mOhm, Single N-Channel, DPAK, Logic Level. 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>High Current Capability</li><li>100% Avalanche Energy Tested</li></ul>	<ul style="list-style-type: none"><li>Provides low conduction losses</li><li>Provides robust load performance</li><li>Safeguards against voltage overstress</li></ul>

Applications	End Products
<ul style="list-style-type: none"><li>Automotive Motor Drive</li><li>Automotive Solenoid Driver</li><li>Automotive Lamp Driver</li></ul>	<ul style="list-style-type: none"><li>Engine Control Units</li></ul>

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)	Packaging Type
NVD5865NLT4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	60	20	2	38	49		19	16		29	8	13	1400	137	95	DPAK-3

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

Created on: 7/11/2015