



Product Overview

NVD5803N: Power MOSFET 40V, 85A, 5.7 mOhm, Single N-Channel, DPAK.

For complete documentation, see the data sheet

Product Description

Automotive Power MOSFET. 40V, 85A, 5.7 mOhm, Single N-Channel, DPAK. AEC-Q101 Qualified MOSFET and PPAP capable suitable for automotive applications.

Features	Benefits
<ul style="list-style-type: none">Low on-resistanceHigh current capability100% avalanche energy tested	<ul style="list-style-type: none">Minimal conduction lossesRobust load performanceVoltage overstress safeguard

Applications	End Products
<ul style="list-style-type: none">Low Side DriverHigh Side DriverMotor drive	<ul style="list-style-type: none">Automotive powertrainAutomotive HVAC motorsABS pressure pumps

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
NVD5803NT4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	40	20	3.5	85	83			5.7		51	12.7	17	3220	390	270	DPAK-3

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

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