



Product Overview

NVD5863NL: Power MOSFET 60V, 82A, 7.1 mOhm, Single N-Channel, DPAK, Logic Level.

For complete documentation, see the data sheet

Product Description

Automotive Power MOSFET. 60V, 82A, 7.1 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">Low on resistanceHigh current capabilityACE-Q101 qualified100% avalanche energy testedAutomotive solenoid driverAutomotive lamp driver	<ul style="list-style-type: none">Minimizes conduction lossesProvides robust load drive performanceSuitable for automotive applicationsSafeguards against voltage overstress failures

Applications	End Products
<ul style="list-style-type: none">Automotive motor driver	<ul style="list-style-type: none">Automotive Engine Control UnitsAutomotive Body ControllersAutomotive HVAC 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)	Packaging Type
NVD5863NLT4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	60	20	3	82	96		9	7.1		70	19.4	31	3850	350	220	DPAK-3

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