

Product Overview

NVD5C454N: Single N-Channel Power MOSFET, 40V, 83A, 4.2mΩ

For complete documentation, see the data sheet.

Automotive Power MOSFET in a DPAK package designed for compact and efficient designs and including high thermal performance. AEC-Q101 Qualified MOSFET and PPAP capable suitable for automotive applications.

Features

- Low on-resistance
- High current capability
- 100% avalanche energy tested
- RoHS Compliant

Benefits

- Minimal conduction losses
- Robust load performance
- Voltage overstress safeguard

Applications

- Low Side Driver
- High Side Driver
- Motor drive

End Products

- Automotive powertrain
- Automotive HVAC motors
- ABS pressure pumps

Part Electrical Specifications

Product	Compliance	Status	Chan- nel Polar- ity	Confi- gura- tion	$V_{SS}^{(BR)D}$ Min (V)	V_{GS} Max (V)	$V_{GS(th)}$ Max (V)	I_D Max (A)	P_D Max (W)	$R_{DS(on)}$ Max @ $V_{GS} =$ 2.5 V (mΩ)	$R_{DS(on)}$ Max @ $V_{GS} =$ 4.5 V (mΩ)	$R_{DS(on)}$ Max @ $V_{GS} =$ 10 V (mΩ)	Q_g Typ @ $V_{GS} =$ 4.5 V (nC)	Q_g Typ @ $V_{GS} =$ 10 V (nC)	C_{iss} Typ (pF)	Pack- age Type
NVD5C454NT4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N- Chan- nel	Singl- e	40	20	4	83	56	-	-	4.2	-	32	1900	DPA K-3

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

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