

## Product Overview

### NVD5C454NL: Single N-Channel Power MOSFET, 40V, 88A, 3.9mΩ

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
- AEC-Q101 Qualified and PPAP Capable
- 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	Pricing (\$/Unit)	Compliance	Status	Channel Polarity	Configuration	$V_{DS}^{(BR)}$ Min (V)	$V_{GS}$ Max (V)	$V_{GS}^{(th)}$ Max (V)	$I_D$ Max (A)	$P_D$ Max (W)	$R_{DS(on)}$ Max @ $V_{GS} = 2.5V$ (mΩ)	$R_{DS(on)}$ Max @ $V_{GS} = 4.5V$ (mΩ)	$R_{DS(on)}$ Max @ $V_{GS} = 10V$ (mΩ)	$Q_g$ Typ @ $V_{GS} = 4.5V$ (nC)	$Q_g$ Typ @ $V_{GS} = 10V$ (nC)	$C_{iss}$ Typ (pF)	Package Type
NVD5C454NLT4G		AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	40	20	2.2	88	56	-	5.7	3.9	21	43	2600	DPAK-3

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

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