



Product Overview

NVD5414N: Power MOSFET 60V, 24A, 37 mOhm, Single N-Channel DPAK.

For complete documentation, see the data sheet

Product Description

Automotive Power MOSFET using advanced planar 60V N-Channel technology ideal for use in DC motor drives, LED drivers, power supplies, converters, pulse width modulation (PWM) controls and bridge circuits where diode speed and commutating safe operating areas are crucial and benefit from an additional safety margin against unexpected voltage transients that these devices provide. AEC-Q101 Qualified MOSFET and PPAP capable suitable for automotive applications.

Features

- Low RDS(on)
Avalanche Energy Specified
Pb-Free

Benefits

- Higher Efficiency
Robust Operation
ROHS Compliant

Applications

- LCD-TV Backlight - LED Lighting Systems
DC-DC Converter
DC Motor Control
Power Supply Secondary Synchronous Rectification

End Products

- LCD-TV and LED Lighting Systems
Automotive Sub Woofer Amplifier
Window/Seat Controls
Power Supplies

Part Electrical Specifications

Product	Compliance	Status	Channel Polarity	Configuration	$V_{DS(ESR)}$ 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 (m)	$r_{DS(on)}$ Max @ $V_{GS} = 4.5$ V (m)	$r_{DS(on)}$ Max @ $V_{GS} = 10$ V (m)	Q_g Typ @ $V_{GS} = 4.5$ V (nC)	Q_g Typ @ $V_{GS} = 10$ V (nC)	Q_{gd} Typ @ $V_{GS} = 4.5$ V (nC)	Q_{rr} Typ (nC)	C_{iss} Typ (pF)	C_{oss} Typ (pF)	C_{rss} Typ (pF)	Packaging Type
NVD5414NT4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	60	20	4	24	55			37		25	11.3	76	800	165	75	DPAK-3

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

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