

Product Overview

NVMFS6B03NL: Single N-Channel Power MOSFET 100V, 145A, 4mΩ

For complete documentation, see the data sheet.

Automotive Power MOSFET in a 5x6mm flat lead package designed for compact and efficient designs and including high thermal performance. Wettable Flank Option available for Enhanced Optical Inspection. AEC-Q101 Qualified MOSFET and PPAP capable suitable for automotive applications.

Features

- Small Footprint (5x6 mm)
- Low RDS(on)
- Low QG and Capacitance
- NVMFS6B03NLWF - Wettable Flank Option
- AEC-Q101 Qualified and PPAP Capable
- RoHS Compliant

Applications

- High-Low Side Driver. H-bridge
- Power switches (High Side Driver, Low Side Driver, H-Bridges etc.)
- Switching power supplies

Benefits

- Compact Design
- Minimize Conduction Losses
- Minimize Driver Losses
- Enhanced Optical Inspection
- Automotive qualified

End Products

- Solenoid Driver – ABS, Fuel injection
- Motor Control – EPS, Wipers, Fans, Seats, etc.
- Load Switch – ECU, Chassis, Body

Part Electrical Specifications

Product	Compliance	Status	Chan- nel Polar- ity	Confi- gura- tion	$V_{GS,Min}^{(BR)D}$ (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)	Pack- age Type
NVMFS6B03NLT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N- Chan- nel	Singl- e	100	16	3	16	198	-	6	4	26	58	5320	SO- 8FL / DFN- 5
NVMFS6B03NLWFT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N- Chan- nel	Singl- e	100	16	3	16	198	-	6	4	26	58	5320	SO- 8FL / DFN- 5

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

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