

Product Overview

NVMFS6H818N: Single N-Channel Power MOSFET 80V, 123A, 3.7mΩ

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 $R_{DS(on)}$
- Low Q_G and Capacitance
- NVMFS6H818NWF - Wettable Flank Option
- AEC-Q101 Qualified and PPAP Capable
- RoHS Compliant

Applications

- Switching power supplies
- Power switches (High Side Driver, Low Side Driver, H-Bridges etc.)
- 48V systems

Benefits

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

End Products

- Motor Control
- DC/DC converter
- Load Switch

Part Electrical Specifications

Product	Compliance	Status	Chan- nel Polar- ity	Confi- gura- tion	$V_{SS}^{(BR)D}$ Min (V)	$V_{GS}^{(th)}$ 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
NVMFS6H818NT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N- Chan- nel	Singl- e	80	20	4	123	3.8	-	-	3.7	-	46	3100	SO- 8FL / DFN- 5
NVMFS6H818NWF1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N- Chan- nel	Singl- e	80	20	4	123	3.8	-	-	3.7	-	46	3100	SO- 8FL / DFN- 5

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

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