

Product Overview

NVMFS5C646NL: Single N-Channel Power MOSFET 60V, 93A, 4.7mΩ

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

- Low RDS(on)
- Low QG and Gate capacitance
- Industry Standard Small Footprint 5x6mm Package
- NVMFS5C646NLWF - Wettable Flank Option
- AEC-Q101 Qualified and PPAP Capable
- RoHS Compliant

Benefits

- Minimize Conduction Losses
- Minimize Switching Losses
- Compact Design and Standard footprint for direct drop-in
- Enhanced Optical Inspection
- Automotive Design

Applications

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

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 _{SS} (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} = 2.5 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
NVMFS5C646NLAFT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N- Chan- nel	Singl- e	60	±20	2	93	79	-	6.3	4.7	15.7	33.7	2164	SO- 8FL / DFN- 5
NVMFS5C646NLWFAFT 1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N- Chan- nel	Singl- e	60	±20	2	93	79	-	6.3	4.7	15.7	33.7	2164	SO- 8FL / DFN- 5

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

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