

## Product Overview

### NVMFS5C670NL: Single N-Channel Power MOSFET 60V, 71A, 6.1mΩ

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  $R_{DS(on)}$
- Low  $Q_G$  and Gate capacitance
- Industry Standard Small Footprint 5x6mm Package
- NVMFS5C670NLWF - 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	$V_{SS}$ 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
NVMFS5C670NLAFT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N- Chan- nel	Singl- e	60	±20	2	71	61	-	8.8	6.1	-	20	1400	SO- 8FL / DFN- 5
NVMFS5C670NLWFAFT 1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N- Chan- nel	Singl- e	60	±20	2	71	61	-	8.8	6.1	-	20	1400	SO- 8FL / DFN- 5

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