

## Product Overview

### NVMFS6B05NL: Single N-Channel Power MOSFET 100V, 114A, 5.6mΩ

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
- NVMFS6B05NLWF - Wettable Flank Option
- AEC-Q101 Qualified and PPAP Capable
- RoHS Compliant

#### Benefits

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

#### Applications

- High-Low Side Driver. H-bridge
- 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	$V_{SS}^{(BR)D}$ Min (V)	$V_{GS}^{Max}$ (V)	$V_{GS}^{(th)Max}$ (V)	$I_D$ Max (A)	$P_D$ Max (W)	$R_{DS(on), Max}$ @ $V_{GS} = 2.5V$ (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
NVMFS6B05NLT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N- Chan- nel	Singl- e	100	16	3	16	165	-	8.2	5.6	8	44	3980	SO- 8FL / DFN- 5
NVMFS6B05NLWFT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N- Chan- nel	Singl- e	100	16	3	16	165	-	8.2	5.6	8	44	3980	SO- 8FL / DFN- 5

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Created on: 9/17/2019