



## Product Overview

### NVMFS5C442NL: Power MOSFET 40V, 150A, 2.8 mOhm, Single N-Channel, SO8-FL, Logic Level.

For complete documentation, see the data sheet

#### Product Description

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	Benefits
<ul style="list-style-type: none"> <li>Small Footprint (5x6 mm)</li> <li>Low RDS(on)</li> <li>Low QG and Capacitance</li> <li>Wettable Flank Option</li> <li>AEC-Q101 Qualified</li> <li>Pb-Free</li> </ul>	<ul style="list-style-type: none"> <li>Compact Design</li> <li>Minimize Conduction Losses</li> <li>Minimize Driver Losses</li> <li>Enhanced Optical</li> <li>Automotive qualified</li> <li>RoHS Compliant</li> </ul>

Applications	End Products
<ul style="list-style-type: none"> <li>Reverser Battery protection</li> <li>Power switches (High Side Driver, Low Side Driver, H-Bridges etc.)</li> <li>Switching power supplies</li> </ul>	<ul style="list-style-type: none"> <li>Solenoid Driver – ABS, Fuel injection</li> <li>Motor Control – EPS, Wipers, Fans, Seats, etc.</li> <li>Load Switch – ECU, Chassis, Body</li> </ul>

#### Part Electrical Specifications

Product	Compliance	Status	Channel Polarity	Configuration	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>DS</sub> (V)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	r <sub>DS(on)</sub> (mΩ)	r <sub>DS(on)</sub> (mΩ)	r <sub>DS(on)</sub> (mΩ)	Q <sub>g</sub> (nC)	Q <sub>g</sub> (nC)	Q <sub>gd</sub> (nC)	Q <sub>rr</sub> (nC)	C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	Packaging Type
NVMFS5C442NLT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	40	16	2	126	83		4.5	2.8	22	43			3000	1200	28	SO-8FL / DF N-5
NVMFS5C442NLT3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	40	16	2	126	83		4.5	2.8	22	43			3000	1200	28	SO-8FL / DF N-5
NVMFS5C442NLWFT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	40	16	2	126	83		4.5	2.8	22	43			3000	1200	28	SO-8FL / DF N-5
NVMFS5C442NLWFT3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	40	16	2	126	83		4.5	2.8	22	43			3000	1200	28	SO-8FL / DF N-5

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