



## Product Overview

### NVMFD5877NL: Power MOSFET 60V, 17A, 39 mOhm, Dual 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>Low on resistance</li> <li>High current capability</li> <li>100% avalanche tested</li> <li>AEC-Q101 Qualified</li> </ul>	<ul style="list-style-type: none"> <li>Minimal conduction losses</li> <li>Robust load performance</li> <li>Safeguard against voltage overstress failures</li> <li>Suitable for automotive applications</li> </ul>

Applications	End Products
<ul style="list-style-type: none"> <li>Solenoid driver</li> <li>Low side / high side driver</li> </ul>	<ul style="list-style-type: none"> <li>Automotive engine controllers</li> <li>Antilock braking systems</li> </ul>

#### Part Electrical Specifications

Product	Compliance	Status	Channel Polarity	Configuration	$V_{DS}$ Min (V)	$V_{GS}$ Max (V)	$V_{GS}$ Min (V)	$I_D$ Max (A)	$P_D$ Max (W)	$r_{DS(on)}$ Max @ $V_{GS}=2.5V$ (m)	$r_{DS(on)}$ Max @ $V_{GS}=4.5V$ (m)	$r_{DS(on)}$ Max @ $V_{GS}=10V$ (m)	$Q_g$ Typ @ $V_{GS}=4.5V$ (nC)	$Q_g$ Typ @ $V_{GS}=10V$ (nC)	$Q_{gd}$ Typ @ $V_{GS}=4.5V$ (nC)	$Q_{rr}$ Typ (nC)	$C_{iss}$ Typ (pF)	$C_{oss}$ Typ (pF)	$C_{rss}$ Typ (pF)	Package Type
NVMFD5877NLT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Dual	60	20	3	17	23		60	39	5.9	11	2.8	11	540	55	36	SO-8FL Dual / DF N-8
NVMFD5877NLT3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Dual	60	20	3	17	23		60	39	5.9	11	2.8	11	540	55	36	SO-8FL Dual / DF N-8
NVMFD5877NLWFT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Dual	60	20	3	17	23		60	39	5.9	11	2.8	11	540	55	36	SO-8FL Dual / DF N-8
NVMFD5877NLWFT3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Dual	60	20	3	17	23		60	39	5.9	11	2.8	11	540	55	36	SO-8FL Dual / DF N-8

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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