



Product Overview

NVMFD5853N: Power MOSFET 40V, 53A, 10 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>Small Footprint (5x6 mm)</li><li>Low RDS(on)</li><li>Low Capacitance</li><li>NVMFD5853NWF Wettable Flanks Product</li><li>AEC-Q101 Qualified and PPAP Capable</li><li>Standard Gate Level (VTH min. = 2 V)</li></ul>	<ul style="list-style-type: none"><li>Reduced board space, smaller modules</li><li>Minimize Conduction Losses</li><li>Minimize Driver Losses</li><li>Facilitates Automated Optical Inspection</li><li>Suitable for use in automotive applications</li><li>Ensures turn off in noisy environments (motor control)</li></ul>
Applications	End Products
<ul style="list-style-type: none"><li>Motor Control</li></ul>	<ul style="list-style-type: none"><li>Engine control module</li><li>Body control module</li><li>Chassis control module</li></ul>

Part Electrical Specifications

Product	Compliance	Status	Channel Polarity	Configuration	V <sub>DS</sub> (BR) Min (V)	V <sub>GS</sub> Max (V)	V <sub>GS</sub> (th) Max (V)	I <sub>D</sub> Max (A)	P <sub>D</sub> Max (W)	r <sub>DS(on)</sub> Max @ V <sub>GS</sub> = 2.5 V (m)	r <sub>DS(on)</sub> Max @ V <sub>GS</sub> = 4.5 V (m)	r <sub>DS(on)</sub> Max @ V <sub>GS</sub> = 10 V (m)	Q <sub>g</sub> Typ @ V <sub>GS</sub> = 4.5 V (nC)	Q <sub>g</sub> Typ @ V <sub>GS</sub> = 10 V (nC)	Q <sub>gd</sub> Typ @ V <sub>GS</sub> = 4.5 V (nC)	Q <sub>rr</sub> Typ (nC)	C <sub>iss</sub> Typ (pF)	C <sub>oss</sub> Typ (pF)	C <sub>rss</sub> Typ (pF)	Packaging Type
NVMFD5853NT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Dual	40	20	4	53	37			10		24	6.6	9	1225	1250	100	SO-8FL Dual / DF N-8
NVMFD5853NWFT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Dual	40	20	4	53	37			10		24	6.6	9	1225	1250	100	SO-8FL Dual / DF N-8

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