

Product Overview

NVMFS5C456N: Single N-Channel Power MOSFET 40V, 80A, 4.5mΩ

For complete documentation, see the data sheet.

Automotive Power MOSFET in a 5 x 6 mm 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 (5 x 6 mm)
- Low R_{DS(on)}
- Low Q_a and Capacitance
- · Wettable Flank Option
- · AEC-Q101 Qualified and PPAP Capable
- · RoHS Compliant

Applications

- · Reverse Battery Protection
- Power Switches (High Side Driver, Low Side Driver, H-Bridges etc.)
- · Switching Power Supplies

Benefits

- · Compact Design
- · Minimize Conduction Losses
- Minimize Drive Losses
- · Enhanced Optical Inspection
- · Automotive Qualified

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 Polari ty	Confi gurati on	V _{(BR)D} SS Min (V)	V _{GS} Max (V)	V _{GS(th)} Max (V)	I _D Max (A)	P _D Max (W)	$R_{DS(on)}$ Max @ $V_{GS} = 2.5 V$ (m Ω)	$R_{DS(on)}$ Max @ $V_{GS} = 4.5 V$ (m Ω)	$R_{DS(on)}$ Max @ $V_{GS} = 10 V$ (m Ω)	Q _g Typ @ V _{GS} = 4.5 V (nC)	Q _g Typ @ V _{GS} = 10 V (nC)	C _{iss} Typ (pF)	Pack age Type
NVMFS5C456NT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N- Chan nel	Singl e	40	20	3.5	78	55	-	-	4.5	-	17	1150	SO- 8FL / DFN- 5
NVMFS5C456NWFT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	N- Chan nel	Singl e	40	20	3.5	78	55	-	-	4.5	-	17	1150	SO- 8FL / DFN- 5

For more information please contact your local sales support at www.onsemi.com.

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