

Product Overview

NVMFS5A140PLZ: Single P-Channel Power MOSFET, -40 V, -140 A, 4.2 mΩ

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 $R_{DS(on)}$
- NVMFS5A140PLZWf: Wettable Flank Option
- AEC-Q101 qualified and PPAP capable
- RoHS compliance

Benefits

- Compact Design
- Minimize Conduction Losses
- Enhanced Optical Inspection
- Suitable for Automotive Applications
- Environmental Consideration

Applications

- Reverse Battery Protection for Automotive
- Load Switch for Automotive

End Products

- Automotive (Head Light, Body Control)

Part Electrical Specifications

Product	Compliance	Status	Channel Polarity	Configuration	$V_{SS Min}$ (V)	$V_{GS Max}$ (V)	$V_{GS(th) Max}$ (V)	$I_D Max$ (A)	$P_D Max$ (W)	$R_{DS(on) Max}$ @ $V_{GS} = 2.5 V$ (mΩ)	$R_{DS(on) Max}$ @ $V_{GS} = 4.5 V$ (mΩ)	$R_{DS(on) Max}$ @ $V_{GS} = 10 V$ (mΩ)	$Q_g Typ$ @ $V_{GS} = 4.5 V$ (nC)	$Q_g Typ$ @ $V_{GS} = 10 V$ (nC)	$C_{iss} Typ$ (pF)	Package Type
NVMFS5A140PLZT1G	AEC Qualified	Active	P-Channel	Single	-40	20	-2.6	-140	200	-	7.2	4.2	-	136	7400	SO-8FL / DFN-5
	PPAP Capable															
	Pb-free															
	Halide free															
NVMFS5A140PLZT3G	AEC Qualified	Active	P-Channel	Single	-40	20	-2.6	-140	200	-	7.2	4.2	-	136	7400	SO-8FL / DFN-5
	PPAP Capable															
	Pb-free															
	Halide free															
NVMFS5A140PLZWFT1G	AEC Qualified	Active	P-Channel	Single	-40	20	-2.6	-140	200	-	7.2	4.2	-	136	7400	SO-8FL / DFN-5
	PPAP Capable															
	Pb-free															
	Halide free															
NVMFS5A140PLZWFT3G	AEC Qualified	Active	P-Channel	Single	-40	20	-2.6	-140	200	-	7.2	4.2	-	136	7400	SO-8FL / DFN-5
	PPAP Capable															
	Pb-free															
	Halide free															

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

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