

Product Overview

NVATS5A106PLZ: P-Channel Power MOSFET -40V, -33A, 25mΩ

For complete documentation, see the data sheet.

Automotive Power MOSFET designed for compact and efficient designs and including high thermal performance. ATPAK devices are Low on-resistance, High current capability and pin-compatible with DPAK(TO-252). AEC-Q101 qualified MOSFET and PPAP capable suitable for automotive applications.

Features

- Low On-Resistance
- High Current Capability
- 100% Avalanche Tested
- AEC-Q101 qualified and PPAP capable
- ATPAK Package is Pin-Compatible with DPAK(TO-252)
- RoHS compliance

Benefits

- Minimizes Conduction Losses, Reduces Heat Dissipation
- Robust Load Performance
- Safeguard Against Voltage Overstress Failures
- Suitable for Automotive Applications
- Enable Replace DPAK with ATPAK without Changing Land Patterns
- Environmental Consideration

Applications

- Reverse Battery Protection for Automotive
- Load Switch for Automotive
- Automotive Front Lighting
- Automotive Body Controllers

End Products

- Automotive (Head Light, Body Control)

Part Electrical Specifications

Product	Compliance	Status	Chan- nel Polar- ity	Confi- gura- tion	V _{SS} (BR) 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)	Pack- age Type
NVATS5A106PLZT4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	P- Chan- nel	Singl- e	-40	20	-2.6	-33	48	-	41	25	-	29	1380	DPAK (Singl- e Gaug- e) / ATPAK

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

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