



## Product Overview

### NVATS5A107PLZ: P-Channel Power MOSFET -40V, -55A, 17mΩ

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 Generation
- 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
- Load Switch
- Automotive Front Lighting
- Automotive Body Controllers

#### End Products

- Automotive (Head Light, Body Control)

Part Electrical Specifications																	
Product	Pricing (\$/Unit)	Compliance	Status	Channel Polarity	Configuration	V <sub>DS(BR)</sub> Min (V)	V <sub>GS</sub> Max (V)	V <sub>GS(th)</sub> 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 (mΩ)	R <sub>DS(on)</sub> Max @ V <sub>GS</sub> = 4.5 V (mΩ)	R <sub>DS(on)</sub> Max @ V <sub>GS</sub> = 10 V (mΩ)	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)	C <sub>iss</sub> Typ (pF)	Package Type
NVATS5A107PLZT4G	0.5279	AEC Qualified PPAP Capable Pb-free Halide free	Active	P-Channel	Single	-40	20	-2.6	-55	60	-	26	17	-	47	2400	DPAK (Single Gauge) / ATPAK

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

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