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Industry-First Standard Rectifier and TVS Two-in-One Solution

# Space-Saving Device Combines 3 A, 600 V Rectifier and 200 W TVS in Compact FlatPAK 5 x 6 Package



## ADVANTAGE

When paired in series with a standard TVS, the R3T2FPHM3 offers designers a complete > 24 V solution with a low clamping ratio.

## KEY PRODUCT FEATURES

- ✓ Standard rectifier:
  - Maximum DC forward current: 3 A
  - Maximum repetitive peak reverse voltage: 600 V
  - Forward voltage drop: 0.86 V
- ✓ TRANSZORB® TVS:
  - Peak pulse power dissipation: 200 W
  - Breakdown voltage: 27 V
- ✓ Temperature range: -55 °C to +175 °C
- ✓ RoHS-compliant and halogen-free and available in an AEC-Q101 qualified version



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## MARKETS AND APPLICATIONS



### MOBILITY

- Automotive
- Micro Mobility



### INDUSTRIAL

- Automation
- Home and Building Controls

## ADDITIONAL BENEFITS

- Two-in-one solution for automotive applications features a standard rectifier and TVS in a single FlatPAK 5 x 6 package, the dual-chip solution saves PCB space, simplifies layouts, and lowers overall costs
- Provides ESD capability in compliance with IEC 61000-4-2, air discharge and contact mode; offers a MSL moisture sensitivity level of 1, per J-STD-020, LF maximum peak of 260 °C and its molding compound features a UL 94 V-0 flammability rating



## ADDITIONAL BENEFITS

- With a wide temperature range from -55 °C to +175 °C, the device released today is suitable for high reliability automotive applications, including secondary protection for sensor units, distributed airbag modules, and low power DC/DC converters in power distribution systems
- Features an oxide planar chip junction design and a common cathode circuit configuration

## Primary Characteristics

R3T2FPHM3			
Standard Rectifier		Transient Voltage Suppressors	
$I_{F(AV)}$	3 A	$V_{BR}$	27 V
$V_{RRM}$	600 V	$V_{WM}$	23.1 V
$I_{FSM}$	40 A	$P_{PPM}$	200 W
$V_F$ at $I_F = 3$ A ( $T_J = 125$ °C)	0.86 V	$I_{PPM}$	5.3 A

