



The DNA of tech.®

3000 W PAR® and TRANSZORB® TVS in DFN6546A Package

Unidirectional and Bidirectional Devices Featuring a Low 0.88 mm Profile and Wetable Flanks

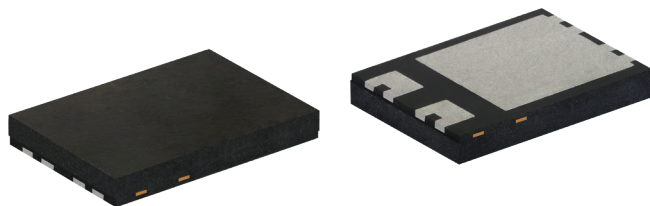


ADVANTAGE

Save space and provide excellent clamping capability up to 137 V.

KEY PRODUCT FEATURES

- ✓ Peak pulse power of 3000 W (10/1000 µs)
- ✓ Compact footprint and extremely low height (6.5 mm x 4.6 mm x 0.88 mm)
- ✓ AEC-Q101 qualification (T3KNxxA and T3KNxxCA)
- ✓ LL15i Industrial Reliability Qualification (3KDFNxxA and 3KDFNxxCA)
- ✓ High temperature operation up to +185 °C
- ✓ Ideal for automated placement



RESOURCES



Order Samples
T3KNxxA and T3KNxxCA



Order Samples
3KDFNxxA and 3KDFNxxCA



Product Page
T3KNxxA and T3KNxxCA



Product Page
3KDFNxxA and 3KDFNxxCA

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MARKETS AND APPLICATIONS



CONNECTIVITY

- Telecom mobile infrastructure



CONSUMER

- Entertainment
- Healthcare



MOBILITY

- Automotive
- Automotive intelligence (smart vehicle) and electrification (e-Powertrain)



ENERGY SECTOR

- Energy generation and exploration



INDUSTRIAL

- Automation and infrastructure
- Drives and tools



COMPUTER

- Computer



AMS

- Avionics, space, military



ADDITIONAL BENEFITS

- The wettable flanks of the DFN6546A package allow for automatic optical inspection (AOI), eliminating the need for an X-ray inspection
- Footprint-compatible with the SMPC (TO-277A) package, the T3KNxxA, T3KNxxCA, 3KDFNxxA, and 3KDFNxxCA series offer twice the power dissipation with a 20 % lower profile. Compared to devices in the SMC (DO-214AB), they offer the same power dissipation while reducing volume by 76 %

DEVICE SPECIFICATION

Series	<u>T3KN12A thru T3KN24A</u>	<u>3KDFN12A thru 3KDFN24A</u>	<u>T3KN12CA thru T3KN100CA</u>	<u>3KDFN12CA thru 3KDFN100CA</u>
Power dissipation (W)	3000			
Breakdown voltage (V)	12 to 24		12 to 100	
Stand-off voltage (V)	10.2 to 20.5		10.2 to 85.5	
Max. clamping voltage (V)	16.7 to 33.2		16.7 to 137	
T _J max. (°C)	185	175	185	175
Polarity	Unidirectional		Bidirectional	
Circuit Configuration	Single			
AEC-Q101	Yes	No	Yes	No