



## Product Overview

### NTST30U100CTG: Schottky Power Rectifier, Dual, 30 A, 100 V

For complete documentation, see the data sheet

#### Product Description

The NTST30U100CTG is our new 30A 100V Very Low Forward Voltage Trench-based Dual Schottky Rectifier. This new technology allows lower forward voltage drop without the high reverse leakage tradeoff experienced with planar schottky rectifiers. This platform also provides very stable switching characteristics over a wide temperature range and is an ideal output rectifier for switching power supplies including Notebook and Netbook Adapters, ATX and Flat Panel Display.

#### Features

- Fine Lithography Trenchbased Schottky Technology for Very Low Forward Voltage and Low Leakage
- Fast Switching with Exceptional Temperature Stability
- Low Power Loss and Lower Operating Temperature
- Higher Efficiency for Achieving Regulatory Compliance
- Low Thermal Resistance
- High Surge Capability
- PbFree and HalideFree Packages are Available

#### Applications

- Switching Power Supplies including Notebook / Netbook Adapters, ATX and Flat Panel Display
- High Frequency and DCDC Converters
- Freewheeling and ORing diodes
- Reverse Battery Protection
- Instrumentation

#### Part Electrical Specifications

Product	Compliance	Status	Configuration	$V_{RRM}$ Min (V)	$V_F$ Max (V)	$I_{RM}$ Max (uA)	$I_{O(rec)}$ Max (A)	$I_{FSM}$ Max (A)	$t_{rr}$ Max (ns)	$C_j$ Max (pF)	Package Type
NTSB30U100CT-1G	Pb-free	Active	Common Cathode	100	0.8	675	30	160			<sup>2</sup> I PAK-3
NTSB30U100CTG	Pb-free	Active	Common Cathode	100	0.8	675	30	160			<sup>2</sup> D PAK-3
	Halide free										
NTSB30U100CTT4G	Pb-free	Active	Common Cathode	100	0.8	675	30	160			<sup>2</sup> D PAK-3
	Halide free										
NTSJ30U100CTG	Pb-free	Active	Common Cathode	100	0.8	675	30	160			TO-220 FULLPAK-3
	Halide free										
NTST30U100CTG	Pb-free	Active	Common Cathode	100	0.8	675	30	160			TO-220-3
NTST30U100CTH	Pb-free	Active	Common Cathode	100	0.8	675	30	160			TO-220-3
	Halide free										

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Created on: 7/11/2015