



## Product Overview

### NTS1045E: Trench Schottky Rectifier Very Low Leakage 10A, 45V

For complete documentation, see the data sheet

#### Product Description

The NTS1045EMFS & NRVTS1045EMFS are Very Low Leakage Trench-based Schottky Rectifier. This new technology allows low 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.

#### 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
- These are PbFree and HalideFree Devices

#### Applications

- Switching Power Supplies including Notebook / Netbook Adapters, ATX and Flat Panel Display
- High Frequency and DC-DC Converters
- Freewheeling and OR-ing diodes
- Reverse Battery Protection
- LED Lighting

#### Part Electrical Specifications

Product	Compliance	Status	Configurat ion	$V_{RRM}$ Min (V)	$V_F$ Max (V)	$I_{RM}$ Max (uA)	$I_{O(rec)}$ Max (A)	$I_{FSM}$ Max (A)	$t_r$ Max (ns)	$C_j$ Max (pF)	Package Type
NRVTS1045EMFST1G	AEC Qualified PPAP Capable Pb-free Halide free	Active		45	0.6	50	10				SO-8FL / DFN-5
NRVTS1045EMFST3G	AEC Qualified PPAP Capable Pb-free Halide free	Active		45	0.6	50	10				SO-8FL / DFN-5

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