



## Product Overview

### NTS1245: Trench Schottky Rectifier, 45V, 12A, Low Forward Voltage

For complete documentation, see the data sheet

#### Product Description

The NTS1245MFS is Low Forward Voltage 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 Trench-based Schottky Technology for Very 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 Pb-Free and Halide-Free Devices

#### Applications

- Switching Power Supplies including Wireless, Smartphone and Notebook Adapters
- High Frequency and DC/DC Converters
- Freewheeling and OR'ing diodes
- Reverse Battery Protection
- LED Lighting

#### 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, Max (pF)	Package Type
NTS1245MFST1G	AEC Qualified Pb-free Halide free	Active		45	0.57	120	12				SO-8FL / DFN-5
NTS1245MFST3G	AEC Qualified Pb-free Halide free	Active		45	0.57	120	12				SO-8FL / DFN-5

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Created on: 7/11/2015