

## Product Overview

### TS12100EMFS: Trench Schottky Rectifier Very Low Leakage 12A, 100V

For complete documentation, see the data sheet.

The NTS12100EMFS is our new 12A 100V Very Low Leakage Trench-based 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.

### 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
- Instrumentation

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Configuration	$V_{RRM}$ Min (V)	$V_F$ Max (V)	$I_{RM}$ Max ( $\mu$ A)	$I_{O(ree)}$ Max (A)	$I_{FSM}$ Max (A)	$t_{rr}$ Max (ns)	$C_j$ Max (pF)	Package Type
NRVTS12100EMFST1G	0.3112	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	100	0.73	55	12	200	-	-	SO-8FL / DFN-5
NRVTS12100EMFST3G	0.358	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	100	0.73	55	12	200	-	-	SO-8FL / DFN-5
NTS12100EMFST1G	0.3005	Pb-free Halide free non AEC-Q and PPAP	Active	Single	100	0.73	55	12	200	-	-	SO-8FL / DFN-5
NTS12100EMFST3G	0.3035	Pb-free Halide free non AEC-Q and PPAP	Active	Single	100	0.73	55	12	200	-	-	SO-8FL / DFN-5

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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