



Product Overview

TS12100MFS: Trench Schottky Rectifier, Low Forward Voltage 12A, 100V

For complete documentation, see the [data sheet](#)

Product Description

The NTS12100EMFS is Low Forward Voltage and 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 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
NTS12100MFST1G	Pb-free Halide free	Active		100	0.71	95		200			SO-8FL / DFN-5
NTS12100MFST3G	Pb-free Halide free	Active		100	0.71	95		200			SO-8FL / DFN-5

For more information please contact your local sales support at www.onsemi.com

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