



Product Overview

NTS10120MFS: Trench Schottky Rectifier Low Vf 10A, 120V Part

For complete documentation, see the data sheet

Product Description

The NTS10120MFS 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 Trenchbased Schottky Technology for Very Low Forward Voltage and Low
- 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
- NRV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These are Pb-Free and Halide-Free 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	Configuration	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
NRVTS10120MFST1G	AEC Qualified PPAP Capable Pb-free Halide free	Active		120V	0.825	0.000055	10				SO-8FL / DFN-5
NRVTS10120MFST3G	AEC Qualified PPAP Capable Pb-free Halide free	Active		120V	0.825	0.000055	10				SO-8FL / DFN-5
NTS10120MFST1G	AEC Qualified Pb-free Halide free	Active		120V	0.825	0.000055	10				SO-8FL / DFN-5
NTS10120MFST3G	AEC Qualified Pb-free Halide free	Active		120V	0.825	0.000055	10				SO-8FL / DFN-5

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

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