



Product Overview

NTST40H120: Trench Schottky Rectifier, Low Vf and low leakage 40A, 120V in TO-220 package

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

Product Description

The NTST40H120CTG is our new Dual 40A 120V Low Forward Voltage Trench-based Dual 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 including Notebook and Netbook Adapters, ATX and Flat Panel.

Features

- Fine Lithography Trench-based Schottky Technology for Very Low forward voltage and 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
- Pb-Free and Halide-Free Packages are Available

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	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
NTST40H120CTG	Pb-free	Active		120	0.91	65	40	250			TO-220-3

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

Created on: 7/11/2015