

## Product Overview

### NTST40120CTG: Schottky Power Rectifier, Dual, 40 A, 120 V

For complete documentation, see the data sheet.

The NTST40120CTG is our new 40A 120V Very 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 Display.

### Features

- Fine Lithography Trenchbased Schottky Technology for Very Low Forward Voltage
- Fast Switching with Exceptional Temperature Stability
- Low Power Loss and Lower Operating Temperature
- Higher Efficiency for Achieving Regulatory Compliance
- High Surge Capability
- PbFree Packages are Available

### Applications

- Switching Power Supplies including Notebook / Netbook Adapters, ATX and Flat Panel Display
- High Frequency and DCDC Converters
- Freewheeling and ORing diodes
- Reverse Battery Protection
- Instrumentation

### Part Electrical Specifications

Product	Compliance	Status	Configuration	$V_{RRM}$ Min (V)	$V_F$ Max (V)	$I_{RM}$ Max ( $\mu$ A)	$I_{O(rec)}$ Max (A)	$I_{FSM}$ Max (A)	$t_r$ Max (ns)	$C_j$ Max (pF)	Package Type
NTSB40120CT-1G	Pb-free	Active	Common Cathode	120	0.91	500	40	250	-	-	D <sup>2</sup> PAK-3
NTSB40120CTG	Pb-free Halide free	Active	Common Cathode	120	0.91	500	40	250	-	-	D2PAK-3 / TO-263-2
NTSB40120CTT4G	Pb-free Halide free	Active	Common Cathode	120	0.91	500	40	250	-	-	D2PAK-3 / TO-263-2
NTST40120CTG	Pb-free	Active	Common Cathode	120	0.91	500	40	250	-	-	TO-220-3

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

Created on: 10/18/2019