



## Product Overview

### NTST20100CTG: Schottky Power Rectifier, Dual, 20 A, 100 V

For complete documentation, see the data sheet

#### Product Description

The NTST20100CTG is our new 20A 100V 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 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
- PbFree and HalideFree 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 | Configurat<br>ion | $V_{RRM}$ Min<br>(V) | $V_F$ Max<br>(V) | $I_{RM}$ Max<br>(uA) | $I_{O(rec)}$ Max<br>(A) | $I_{FSM}$ Max<br>(A) | $t_{rr}$ Max<br>(ns) | $C_j$ Max<br>(pF) | Package<br>Type         |
|----------------|-------------|--------|-------------------|----------------------|------------------|----------------------|-------------------------|----------------------|----------------------|-------------------|-------------------------|
| NTSB20100CT-1G | Pb-free     | Active | Common<br>Cathode | 100                  | 0.79             | 800                  | 20                      | 150                  |                      |                   | <sup>2</sup> I PAK-3    |
| NTSB20100CTG   | Pb-free     | Active | Common<br>Cathode | 100                  | 0.79             | 800                  | 20                      | 150                  |                      |                   | <sup>2</sup> D PAK-3    |
|                | Halide free |        |                   |                      |                  |                      |                         |                      |                      |                   |                         |
| NTSB20100CTT4G | Pb-free     | Active | Common<br>Cathode | 100                  | 0.79             | 800                  | 20                      | 150                  |                      |                   | <sup>2</sup> D PAK-3    |
|                | Halide free |        |                   |                      |                  |                      |                         |                      |                      |                   |                         |
| NTSJ20100CTG   | Pb-free     | Active | Common<br>Cathode | 100                  | 0.79             | 800                  | 20                      | 150                  |                      |                   | TO-220<br>FULLPAK-<br>3 |
|                | Halide free |        |                   |                      |                  |                      |                         |                      |                      |                   |                         |
| NTST20100CTG   | Pb-free     | Active | Common<br>Cathode | 100                  | 0.79             | 800                  | 20                      | 150                  |                      |                   | TO-220-3                |

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

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