



Product Overview

NTST30100SG: Schottky Rectifier, Low Forward Voltage, 30 A, 100 V

For complete documentation, see the data sheet

Product Description

The NTST30100SG is our new 30A 100V Very Low Forward Voltage Trench-based 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
- This is a PbFree Device

Mechanical Characteristics:

- Case: Epoxy, Molded
- Epoxy Meets Flammability Rating UL 940 @ 0.125 in
- Weight (Approximately): 1.9 grams

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 | Configurat ion | 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_j Max (pF) | Package Type |
|---------------|------------|--------|-------------------|----------------------|------------------|----------------------|-------------------------|----------------------|----------------------|-------------------|----------------------|
| NTSB30100S-1G | Pb-free | Active | Single | 100 | 0.95 | 1000 | 30 | 250 | | | ² I PAK-3 |
| NTST30100SG | Pb-free | Active | Single | 100 | 0.95 | 1000 | 30 | 250 | | | TO-220-3 |

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

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