



## Product Overview

### MBRS4201: Schottky Power Rectifier, Surface Mount, Fast Soft-Recovery, 4.0 A, 200 V

For complete documentation, see the data sheet

#### Product Description

This Schottky Rectifier is a state-of-the-art high voltage fast-soft recovery Schottky device perfectly designed for use where ultra fast devices fall short in switching performance.

#### Features

- Lower Forward Voltage than any Ultrafast Rectifier:  $V_F < 0.61\text{ V}$  at 150C
- Fast Switching Speed: Reverse Recovery Time ( $t_{RR}$ )  $< 35\text{ ns}$
- Soft Recovery Characteristics: Softness Factor ( $t_b/t_a$ )  $< 1$
- Highly Stable Over Temperature
- Pb-Free Package is Available
- AEC-Q101 Qualified and PPAP Capable
- NRVB Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements

#### Applications

- Engine and Convenience Control Systems
- Motor Controls
- Battery Chargers and Switching Power Supplies

#### 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 |
|--------------|---|--------|-------------------|----------------------|------------------|----------------------|-------------------------|----------------------|----------------------|-------------------|-----------------|
| MBRS4201T3G  | AEC<br>Qualified<br>Pb-free<br>Halide free                    | Active | Single            | 200                  | 0.8              | 0.35                 | 4                       | 100                  | 35                   |                   | SMC-2           |
| NRVBS4201T3G | AEC<br>Qualified<br>PPAP<br>Capable<br>Pb-free<br>Halide free | Active | Single            | 200                  | 0.8              | 0.35                 | 4                       | 100                  | 35                   |                   | SMC-2           |

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

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