



## Product Overview

### MBRS410LT3: Schottky Power Rectifier, Surface Mount, 4.0 A, 10 V

For complete documentation, see the data sheet

#### Product Description

This device employs the Schottky Barrier principle in a large area metal-to-silicon power diode. State-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes, in surface mount applications where compact size and weight are critical to the system. Typical applications are AC-DC and DC-DC, reverse battery protection, and "Oring" of multiple supply voltages and any other application where performance and size are critical.

#### Features

- Ultra Low  $V_F$
- 1st in the Market Place with a 10 VR Schottky Rectifier
- Small Compact Surface Mountable Package with J-Bend Leads
- Rectangular Package for Automated Handling
- Highly Stable Oxide Passivated Junction
- Very Low Forward Voltage Drop
- Excellent Ability to Withstand Reverse Avalanche Energy Transients
- Guardring for Stress Protection
- Mechanical Characteristics:
  - Case: Epoxy, Molded
- Weight: 217 mg (approximately)

#### 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) | $C_j$ Max (pF) | Package Type |
|--------------|---|-----------------|---------------|-------------------|---------------|-------------------|----------------------|-------------------|-------------------|----------------|--------------|
| MBRS410LT3G  | AEC Qualified<br>Pb-free<br>Halide free                 | Active          | Single        | 10                | 0.33          | 5000              | 4                    | 150               |                   |                | SMC-2        |
| NRVBS410LT3G | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Product Preview | Single        | 10                | 0.33          | 5000              | 4                    | 150               |                   |                | SMC-2        |

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