

Product Overview

MBRM110E: Schottky Power Rectifier, Surface Mount, 1.0 A, 10 V

For complete documentation, see the data sheet.

POWERMITE Power Surface Mount Package The Schottky Powermite employs the Schottky Barrier principle with a barrier metal and epitaxial construction that produces optimal forward voltage drop-reverse current tradeoff. The advanced packaging techniques provide for a highly efficient micro miniature, space saving surface mount Rectifier. With its unique heatsink design, the Powermite has the same thermal performance as the SMA while being 50% smaller in footprint area, and delivering one of the lowest height profiles, < 1.1 mm in the industry. Because of its small size, it is ideal for use in portable and battery powered products such as cellular and cordless phones, chargers, notebook computers, printers, PDAs and PCMCIA cards. Typical applications are ac/dc and dc-dc converters, reverse battery protection, and "Oring" of multiple supply voltages and any other application where performance and size are critical.

Features

- Low IR Extends Battery Life
- Low Profile - Maximum Height of 1.1 mm
- Small Footprint - Footprint Area of 8.45 mm²
- 150°C Operating Junction Temperature
- Low Thermal Resistance with Direct Thermal Path of Die on Exposed Cathode Heat Sink
- Powermite is JEDEC Registered as D0-216AA
- Case: Molded Epoxy
- Epoxy Meets UL 94V-O at 1/8 inch
- Weight: 62 mg (approximately)
- Lead and Mounting Surface Temperature for Soldering Purposes: 260°C Maximum for 10 Seconds

For more features, see the data sheet

Part Electrical Specifications

| Product | Compliance | Status | Configuration | V _{RRM} Min (V) | V _F Max (V) | I _{RM} Max (μA) | I _{O(rec)} Max (A) | I _{FSM} Max (A) | t _r Max (ns) | C _i Max (pF) | Package Type |
|--------------|---------------|--------|---------------|--------------------------|------------------------|--------------------------|-----------------------------|--------------------------|-------------------------|-------------------------|--------------|
| MBRM110ET1G | Pb-free | Active | Single | 10 | 0.53 | 1 | 1 | 50 | - | - | POWERMITE-2 |
| | Halide free | | | | | | | | | | |
| MBRM110ET3G | Pb-free | Active | Single | 10 | 0.53 | 1 | 1 | 50 | - | - | POWERMITE-2 |
| | Halide free | | | | | | | | | | |
| NRVBM110ET1G | AEC Qualified | Active | Single | 10 | 0.53 | 1 | 1 | 50 | - | - | POWERMITE-2 |
| | PPAP Capable | | | | | | | | | | |
| | Pb-free | | | | | | | | | | |
| | Halide free | | | | | | | | | | |

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

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