



Product Overview

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

For complete documentation, see the data sheet

Product Description

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 I_R 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

Mechanical Characteristics:

- 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

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_r Max (ns)	C, Max (pF)	Package Type
MBRM110ET1G	AEC Qualified Pb-free Halide free	Active	Single	10	0.53	1	1	50			POWERMITE-2
MBRM110ET3G	AEC Qualified Pb-free Halide free	Active	Single	10	0.53	1	1	50			POWERMITE-2
NRVBM110ET1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	10	0.53	1	1	50			POWERMITE-2

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

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