

## Product Overview

### MBRM110L: 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

- Ultra Low  $V_F$
- 1st in Marketplace with a 10 V<sub>R</sub> Schottky Rectifier
- Low Profile - Maximum Height of 1.1 mm
- Small Footprint - Footprint Area of 8.45 mm<sup>2</sup>
- Low Thermal Resistance with Direct Thermal Path of Die on Exposed Cathode Heat Sink
- ESD Protection: Human Body Model >4000 V (Class 3)  
Machine Model >400 V (Class C)

##### Mechanical Characteristics:</b>

- Powermite is JEDEC Registered as D0?216AA
- Case: Molded Epoxy
- Epoxy Meets UL 94V-O at 1/8 inch
- Weight: 62 mg (approximately)

#### Part Electrical Specifications

Product	Compliance	Status	Configuration	V <sub>RRM</sub> Min (V)	V <sub>F</sub> Max (V)	I <sub>RM</sub> Max (uA)	I <sub>O(rec)</sub> Max (A)	I <sub>FSM</sub> Max (A)	t <sub>rr</sub> Max (ns)	C <sub>j</sub> Max (pF)	Package Type
MBRM110LT1G	AEC Qualified Pb-free Halide free	Active	Single	10	0.365	500	1	50			POWERMITE-2
MBRM110LT3G	AEC Qualified Pb-free Halide free	Active	Single	10	0.365	500	1	50			POWERMITE-2
NRVBM110LT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	10	0.365	500	1	50			POWERMITE-2
NRVBM110LT3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	10	0.365	500	1	50			POWERMITE-2

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