



Product Overview

MBRM1H100: Schottky Power Rectifier, Surface Mount, 1.0 A, 100 V

For complete documentation, see the data sheet

Product Description

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. 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 V_F Provides Higher Efficiency and Extends Battery Life
- Low Profile - Maximum Height of 1.1 mm
- Small Footprint - Footprint Area of 8.45 mm²
- Supplied in 12 mm Tape and Reel
- Low Thermal Resistance with Direct Thermal Path of Die on Exposed Cathode Heat Sink

Mechanical Characteristics:

- Powermite® is JEDEC Registered as DO-216AA
- Case: Molded Epoxy
- Epoxy Meets UL94V-0 at 0.125 in
- Weight: 16.3 mg (approximately)
- Lead and Mounting Surface Temperature for Soldering Purposes: 260°C Maximum for 10 Seconds

Benefits

- Low Power Loss/High Efficiency

Applications

- SMPS Power Supply
- Free Wheeling Diode

End Products

- Adapter

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 Max (pF)	Package Type
MBRM1H100T3G	AEC Qualified Pb-free Halide free	Active	Single	100	0.76	20	1	50			POWERM ITE-2

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

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