

Product Overview

MBRM130L: 1.0 A, 30 V, Schottky Power Rectifier, Surface Mount

For complete documentation, see the data sheet.

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 Profile - Maximum Height of 1.1 mm
- Small Footprint - Footprint Area of 8.45 mm²
- Low VF Provides Higher Efficiency and Extends battery Life
- Supplied in 12 mm Tape and Reel
- Low Thermal Resistance with Direct Thermal Path of Die on Exposed Cathode Heat Sink
- Powermite is JEDEC Registered as DO-216AA
- Case: Molded Epoxy
- Epoxy Meets UL94V-0 at 1/8"
- Weight: 62 mg (approximately)
- Device Marking: BCG

For more features, see the data sheet

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Configuration	V _{RRM} Min (V)	V _F Max (V)	I _{RM} Max (µA)	I _{O(ree)} Max (A)	I _{FSM} Max (A)	t _{rr} Max (ns)	C _j Max (pF)	Package Type
MBRM130LT1G	0.0859	Pb-free	Active	Single	30	0.38	410	1	50	-	-	POWER MITE-2
		Halide free non AEC-Q and PPAP										
MBRM130LT3G	0.0904	Pb-free	Active	Single	30	0.38	410	1	50	-	-	POWER MITE-2
		Halide free non AEC-Q and PPAP										
NRVBM130LT1G	0.1525	AEC Qualified	Active	Single	30	0.38	410	1	50	-	-	POWER MITE-2
		PPAP Capable										
		Pb-free										
		Halide free										
NRVBM130LT3G	0.132	AEC Qualified	Active	Single	30	0.38	410	1	50	-	-	POWER MITE-2
		PPAP Capable										
		Pb-free										
		Halide free										

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

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