

## MBRB1045

# Schottky Power Rectifier, Switch-mode, 10 A, 45 V

## Product Overview

For complete documentation, see the data sheet.

The Schottky Rectifier employs the Schottky Barrier principle in a metal-to-silicon power rectifier. It features epitaxial construction with oxide passivation and metal overlay contact. It is ideally suited for low voltage, high frequency switching power supplies, free wheeling diodes and polarity protection diodes.

## Features

- Guarding for Stress Protection
  - Low Forward Voltage
  - Epoxy Meets UL94, VO at 1/8"
  - Short Heat Sink Tab Manufactured - Not Sheared!
  - Similar in Size to the Industry Standard TO-220 Package
  - Case: Epoxy, Molded
  - Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
  - Lead and Mounting Surface Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
  - 150°C Operating Junction Temperature
  - AEC-Q101 Qualified and PPAP Capable
- For more features, see the data sheet

## Applications

- Switching Power Supplies, Power Inverters

Part Electrical Specifications												
Product	Pricing (\$/Unit)	Compliance	Status	Configuration	V <sub>RRM</sub> Min (V)	V <sub>F</sub> Max (V)	I <sub>RM</sub> Max (μA)	I <sub>O(rec)Max</sub> (A)	I <sub>FSM</sub> Max (A)	t <sub>rr</sub> Max (ns)	C <sub>j</sub> Max (pF)	Package Type
MBRB1045T4G	0.5484		Active	Single	45	0.84	100	10	150	-	-	D2PAK-3 / TO-263-2
MBRD1045T4G	0.3537		Active	Single	45	0.84	100	10	70	-	-	DPAK-3
SBRB1045T4G	0.616		Active	Single	45	0.84	100	10	150	-	-	D2PAK-3 / TO-263-2