

## Product Overview

### MBRB1045: Schottky Power Rectifier, Switch-mode, 10 A, 45 V

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 Mechanical Characteristics:
  - 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)</sub> Max (A)	I <sub>FSM</sub> Max (A)	t <sub>rr</sub> Max (ns)	C <sub>j</sub> Max (pF)	Package Type
MBRB1045G	0.4512	Pb-free	Active	Single	45	0.84	100	10	150	-	-	D2PAK-3 / TO-263-2
		Halide free										
MBRB1045T4G	0.4057	Pb-free	Active	Single	45	0.84	100	10	150	-	-	D2PAK-3 / TO-263-2
		Halide free										
MBRD1045T4G	0.3224	Pb-free	Active	Single	45	0.84	100	10	70	-	-	DPAK-3
		Halide free										
SBRB1045G	0.616	AEC Qualified	Active	Single	45	0.84	100	10	150	-	-	D2PAK-3 / TO-263-2
		PPAP Capable										
		Pb-free										
		Halide free										
SBRB1045T4G	0.616	AEC Qualified	Active	Single	45	0.84	100	10	150	-	-	D2PAK-3 / TO-263-2
		PPAP Capable										
		Pb-free										
		Halide free										
SBRD81045T4G	0.3268	AEC Qualified	Active	Single	45	0.84	100	10	70	-	-	DPAK-3
		PPAP Capable										
		Pb-free										
		Halide free										
SSBRD81045T4G	0.2615	AEC Qualified	Active	Single	45	0.84	100	10	150	-	-	DPAK-3
		PPAP Capable										
		Pb-free										
		Halide free										

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