

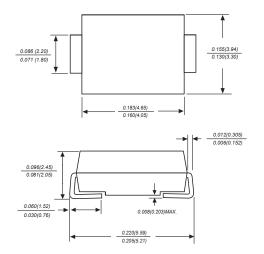
# **MBRS1100**

# SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 100 Volts Forward Current - 1.0 Ampere

## **SMB**

#### **DO-214AA**



### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- ◆ Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

#### **MECHANICAL DATA**

Case: JEDEC DO-214AA molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.005 ounce, 0.138 grams

Marking: B100

Dimensions in inches and (millimeters)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	MBRS1100	UNITS
Maximum repetitive peak reverse voltage	Vrrm	100	VOLTS
Maximum RMS voltage	VRMS	70	VOLTS
Maximum DC blocking voltage	Vpc	100	VOLTS
Maximum average forward rectified current	l(AV)	1.0	Amp
at TL(see fig.1)	I(AV)		
Peak forward surge current			
8.3ms single half sine-wave superimposed on	IFSM	30.0	Amps
rated load (JEDEC Method)			
Maximum instantaneous forward voltage at 1.0A	VF	0.85	Volts
Maximum DC reverse current Ta=25℃		0.1	mA
at rated DC blocking voltage Ta=100℃	l <sub>R</sub>	20.0	
Typical junction capacitance (NOTE 1)	Cı	80	pF
Typical thermal resistance (NOTE 2)	RqJA	22.0	°C/W
Operating junction temperature range	TJ,	-65 to +150	°C
Storage temperature range	Тѕтс	-65 to +150	°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

# **RATINGS AND CHARACTERISTIC CURVES MBRS1100**

