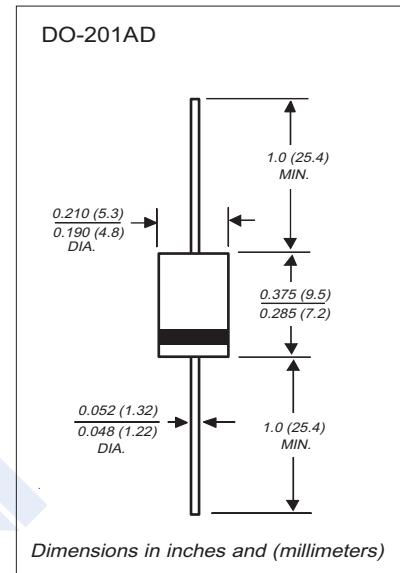


Schottky Barrier Rectifier

MBR320 ~ MBR3100

■ Features

- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability



■ Absolute 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%.

Parameter	Symbol	MBR 320	MBR 330	MBR 340	MBR 350	MBR 360	MBR 370	MBR 380	MBR 390	MBR 3100	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	70	80	90	100	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	49	56	63	70	
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	70	80	90	100	
Maximum average forward rectified current 0.375" (9.5mm) lead length (see fig.1)	I _(AV)	3.0									A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80.0									
Maximum instantaneous forward voltage at 3.0A	V _F	0.55			0.70			0.85			V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	0.5									mA
Typical junction capacitance (Note 1)	C _j	250			160			10			
Typical thermal resistance (Note 2)	R _{thJA}	40									°C/W
Junction Temperature	T _j	-65 to +125			-65 to +150						°C
Storage Temperature	T _{stg}	-65 to +150									

Notes:

1. Measured at 1MHz and applied reverse voltage of 4V D.C
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

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■ Typical Characteristics

