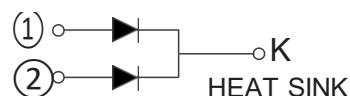


SCHOTTKY BARRIER GLASS PASSIVATED RECTIFIERS

FEATURES

- ◆ High current capability
- ◆ Low forward voltage drop
- ◆ Low power loss, high efficiency
- ◆ High surge capability
- ◆ High temperature soldering guaranteed
- ◆ Mounting position: any

TO-263(D²PAK)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

MCHARACTERISTICS	SYMBOL	MBRB 3045	MBRB 3060	MBRB 30100	MBRB 30150	MBRB 30200	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	45	60	100	150	200	V
Maximum RMS voltage	V _{RMS}	32	42	70	105	140	V
Maximum DC blocking voltage	V _{DC}	45	60	100	150	200	V
Maximum average forward rectified current per diode per device	I _{F(AV)}	15 30					A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) per device	I _{FSM}	200					A
Maximum instantaneous forward voltage at 15A DC Per leg	V _F	0.70	0.75	0.85	0.95		V
Maximum DC reverse current at rated DC blocking voltage T _A =25℃ T _A =125℃	I _R	0.1 20		0.05 20			mA
Typical junction capacitance (NOTE 1)	C _J	600	400				pF
Typical thermal resistance (NOTE 2)	R _{θJA}	45					℃/W
Operating junction temperature range	T _J	-55 to +150					℃
Storage temperature range	T _{STG}	-55 to +150					℃

Note: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.

2. PCB. Mounted on 10cm x 10cm x 1mm copper pad areas

3. The typical data above is for reference only.

Fig.1 Typical Forward Current Derating Curve

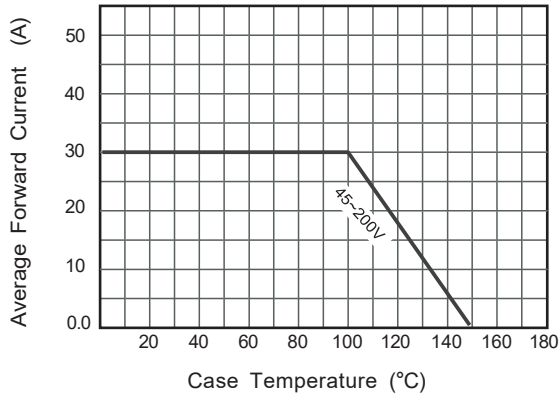


Fig.2 Typical Reverse Characteristics

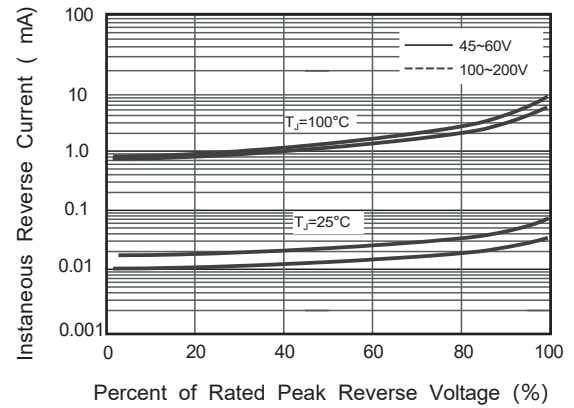


Fig.3 Typical Forward Characteristic(per leg)

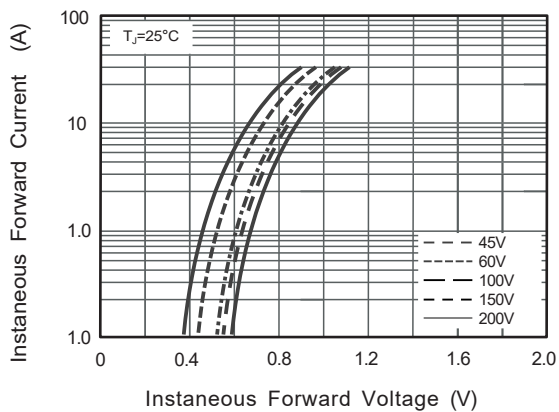
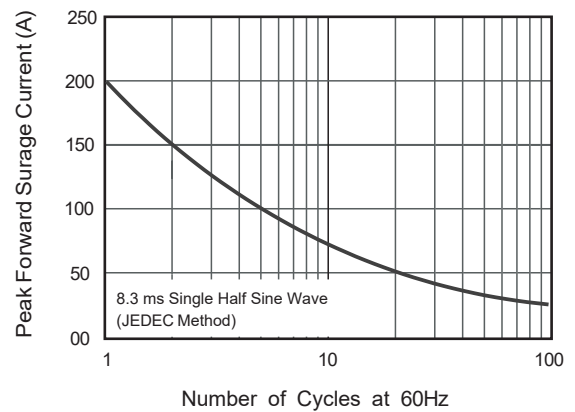


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.