

MBRD2045 THRU MBRD20200

20 AMP SCHOTTKY BARRIER RECTIFIERS

FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Epitaxial construction

MECHANICAL DATA

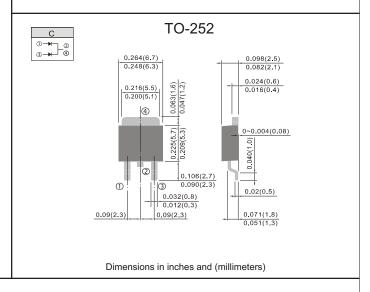
* Case: Molded plastic

* Epoxy: UL 94V-0 rate flame retardant

* Lead: Lead solderable per MIL-STD-202, method 208 guranteed

* Polarity: As Marked * Mounting position: Any * Weight: 2.24 grams

VOLTAGE RANGE 45 to 200 Volts CURRENT 20 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER		MBRD 2045	MBRD 2060	MBRD 20100	MBRD 20150	MBRD 20200	UNITS
Maximum Recurrent Peak Reverse Voltage		45	60	100	150	200	V
Maximum RMS Voltage		32	42	70	105	140	V
Maximum DC Blocking Voltage		45	60	100	150	200	V
Maximum Average Forward Rectified Current							
.375"(9.5mm) Lead Length at Tc=100°C		20					Α
Peak Forward Surge Current, 8.3 ms s	ingle half sine-wave						
superimposed on rated load (JEDEC method)		175					Α
Maximum Instantaneous Forward Voltage at 20A		0.55	0.70	0.85	0.	90	V
Maximum DC Reverse Current	Ta=25°C	0.2		0.05			mA
at Rated DC Blocking Voltage	Ta=125°C	35		20			mA
Typical Junction Capacitance (Note1)		500					pF
Typical Thermal Resistance R JA (Note 2)		8					°C/W
Operating Temperature Range T _J		-55—+150					°C
Storage Temperature Range Tstc		-55 					°C

NOTES

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

RATING AND CHARACTERISTIC CURVES (MBRD2045 THRU MBRD20200)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

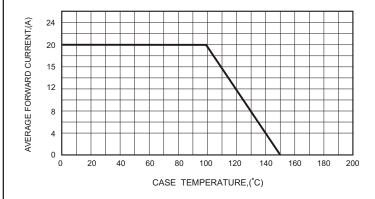


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

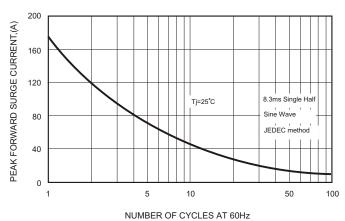


FIG.4-TYPICAL JUNCTION CAPACITANCE

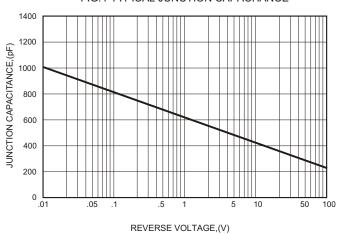


FIG.2-TYPICAL FORWARD

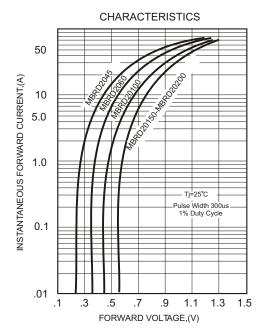
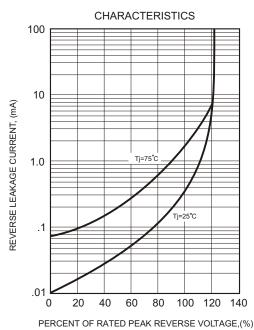


FIG.5 - TYPICAL REVERSE



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ACDBA240-HF ACDBA3100-HF CDBQC0530L-HF ACDBA260LR-HF ACDBA1100-HF MA4E2502L-1246 10BQ060-M3/5BT
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