



10 AMPERE SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 40 to 200 Volt CURRENT 10 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- · High current capability
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

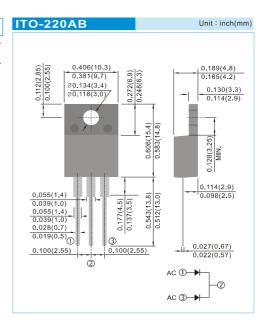
MECHANICAL DATA

• Case: ITO-220AB molded plastic

• Terminals: solder plated, solderable per MIL-STD-750, Method 2026

· Polarity: As marked.

• Weight: 0.056 ounces, 1.6 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBR1040FCT	MBR1045FCT	MBR1050FCT	MBR1060FCT	MBR1080FCT	MBR1090FCT	MBR10100FCT	MBR10150FCT	MBR10200FCT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V _{RMS}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	VDC	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See fig.1)	IF(AV)	10							А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	IFSM	150							А		
Maximum Forward Voltage at 5A, per leg	VF	0	.7	0.75			0.8		0.9		V
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =125°C	lr	0.05 20							mA		
Typical Thermal Resistance	Rөjc	2							°C / W		
Operating and Storage Junction Temperature Range	TJ, TSTG	-55 to + 150 -65 to + 175							°C		

Notes:

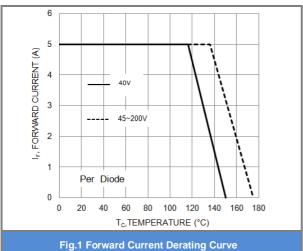
Both Bonding and Chip structure are available.

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TYPICAL CHARACTERISTIC CURVES



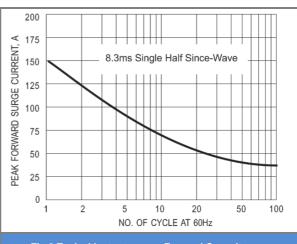


Fig.2 Typical Instantaneous Forward Capacitance

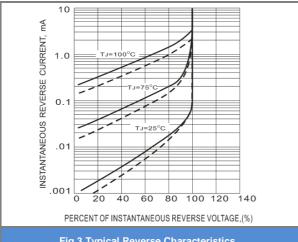
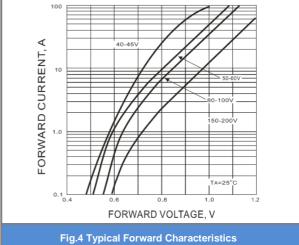


Fig.3 Typical Reverse Characteristics



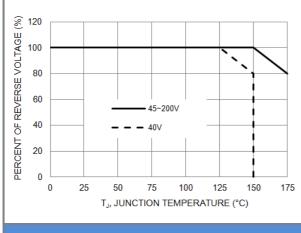


Fig.5 Operating Temperature Derating Curve

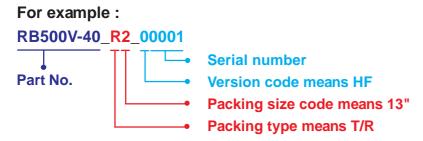
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Part No_packing code_Version

MBR1040FCT_T0_00001



Packing Code XX					Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					

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