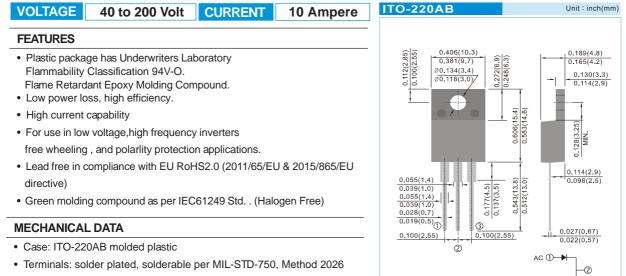


10 AMPERE SCHOTTKY BARRIER RECTIFIERS



- · 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)	F(AV)	10						A			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	Ifsm	150							A		
Maximum Forward Voltage at 5A, per leg	Vf	0.7 0.75			5 0.8			0.9		V	
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =125°C	IR	0.05 20						mA			
Typical Thermal Resistance	Røjc	2						°C / W			
Operating and Storage Junction Temperature Range	TJ, TSTG	-55 to + 150 -65 to + 175							°C		

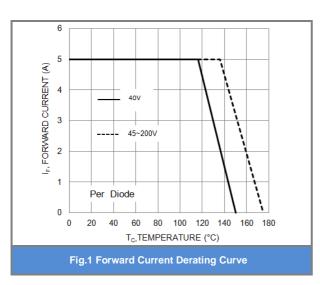
Notes :

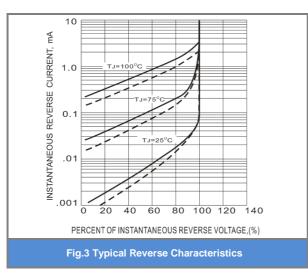
Both Bonding and Chip structure are available.

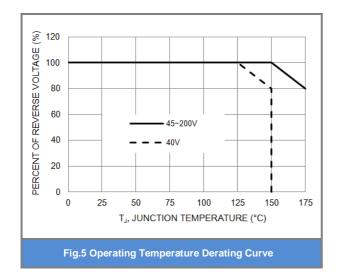
AC 3

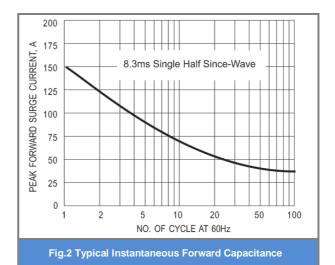


TYPICAL CHARACTERISTIC CURVES









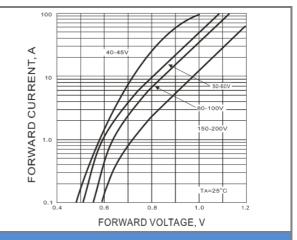


Fig.4 Typical Forward Characteristics



Part No_packing code_Version

MBR1040FCT_T0_00001

For example :

RB500V-40_R2_00001



• Serial number

• Version code means HF

• Packing size code means 13"

-• Packing type means T/R

Packing Code XX					Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st 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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