

#### 20 AMPERES SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 40 to 200 Volt CURRENT

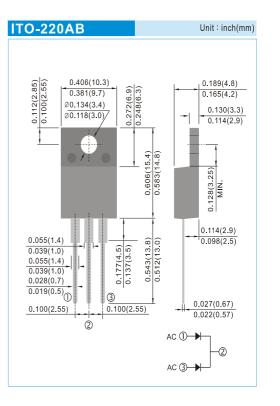
#### 20 Ampere

#### 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 RoHS 2011/65/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.

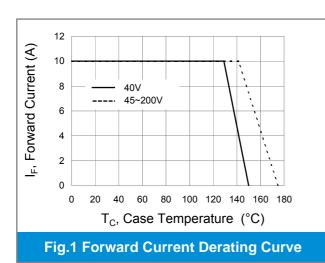
For capacitive load, derate current by 20%

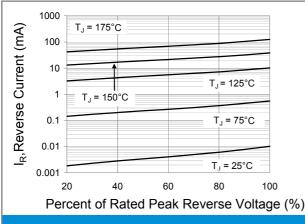
PARAMETER	SYMBOL	MBR2040FCT	MBR2045FCT	MBR2050FCT	MBR2060FCT	MBR2080FCT	MBR2090FCT	MBR20100FCT	MBR20150FCT	MBR20200FCT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V <sub>rms</sub>	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	Vdc	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See fig.1)	I <sub>f(AV)</sub>	20						A			
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load	I <sub>fsm</sub>	200							A		
Maximum Forward Voltage at 10A, per leg	V <sub>F</sub>	0.7 0.75 0.8 0.9			.9	V					
Maximum DC Reverse Current at Rated DC T_=25°C Blocking Voltage T_=125°C	I <sub>R</sub>	0.05 20						mA			
Typical Thermal Resistance	R <sub>ejc</sub>	2						°C / W			
Operating and Storage Junction Temperature Range	T <sub>j</sub> ,T <sub>stg</sub>	-55 to + 150 -65 to +175							٥C		

Notes :

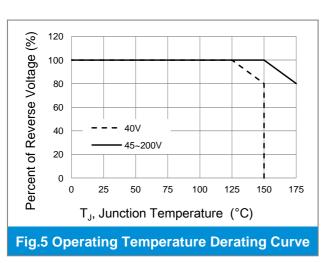
Both Bonding and Chip structure are available.

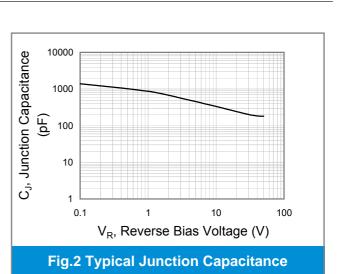


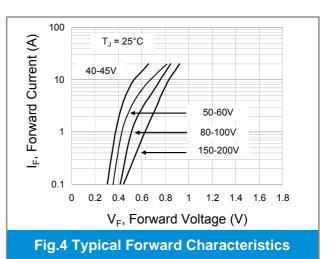




**Fig.3 Typical Reverse Characteristics** 











#### Part No\_packing code\_Version

MBR2040FCT\_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 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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