

# MBR1040F~MBR10200F

### **10 AMPERES SCHOTTKY BARRIER RECTIFIERS**

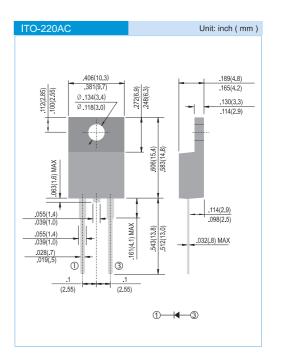
VOLTAGE 40 to 200 Volts CURRENT 10 Amperes

#### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
  Flame Retardant Epoxy Molding Compound.
- · Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- · High current capability
- · Guardring for overvlotage protection
- For use in low voltage, high frequency inverters free wheeling , and polarlity protection applications.
- · Lead free in comply with EU RoHS 2011/65/EU directives

#### **MECHANICALDATA**

- Case: ITO-220AC molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · Mounting Position: Any
- Weight: 0.055 ounces, 1.5615 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%

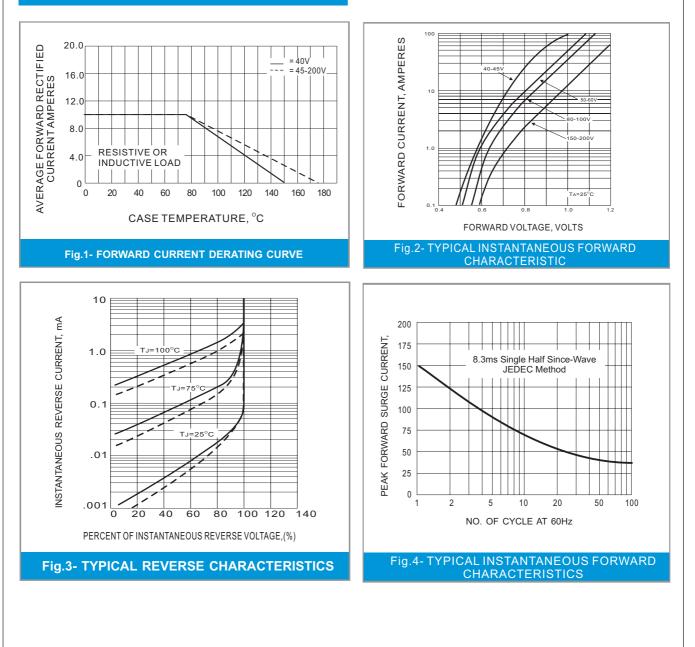
PARAMETER	SYMBOL	MBR1040F	MBR1045F	MBR1050F	MBR1060F	MBR1080F	MBR1090F	MBR10100F	MBR10150F	MBR10200F	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V <sub>rms</sub>	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	Vdc	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See fig.1)	IF(AV)	10							A		
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	Ifsm	150						A			
Maximum Forward Voltage at 10A, per leg	VF	0.	0.7 0.75				0.8		0.9		V
Maximum DC Reverse Current T =25 °C at Rated DC Blocking Voltage T =125°C	lr	0.05 20							mA		
Typical Thermal Resistance	R <sub>ejc</sub>	3.0						°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.



**RATING AND CHARACTERISTIC CURVES** 







## MBR1040F~MBR10200F

### Part No\_packing code\_Version

MBR1040F\_T0\_00001 MBR1040F\_T0\_10001

## For example :

### RB500V-40\_R2\_00001



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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