

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

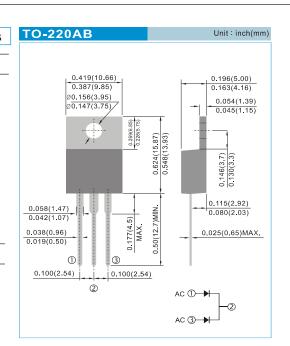
VOLTAGE 40 to 200 Volts CURRENT 10 Amperes

#### 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

#### **MECHANICAL DATA**

- Case: TO-220AB molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- Mounting Position: Any
- Weight: 0.0655 ounces, 1.859 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%

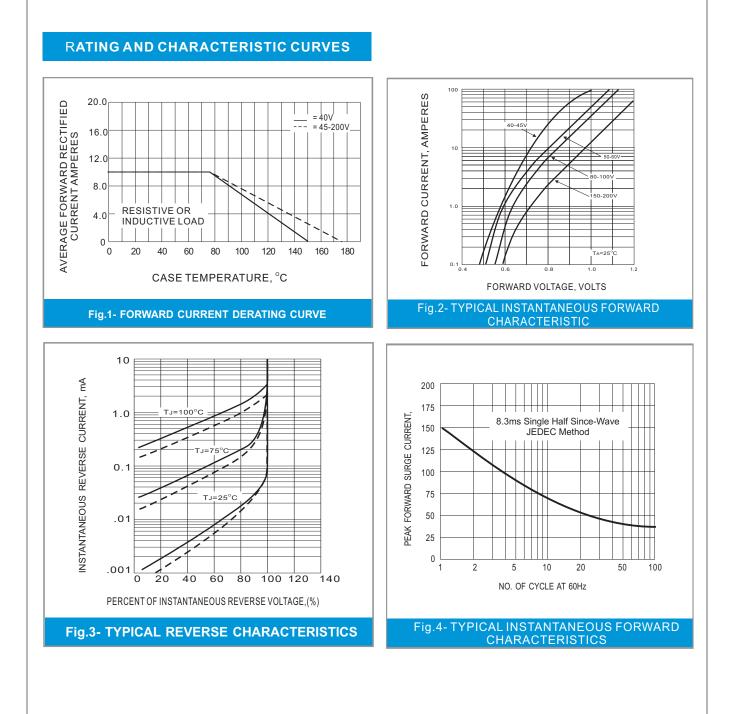
PARAMETER	SYMBOL	MBR1040 CT	MBR1045 CT	MBR1050 CT	MBR1060 CT	MBR1080 CT	MBR1090 CT	MBR10100 CT	MBR10150 CT	MBR10200 CT	UNITS
Maximum Recurrent Peak Reverse Voltage		40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	Vrms	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	VDC	40	45	50	60	80	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 (JEDEC method)	Ifsm	150					А				
Maximum Forward Voltage at 5A, per leg	VF	Vf 0.7		0.	.75 0.8		0		.9	V	
Maximum DC Reverse Current at Rated DC T_=25°C Blocking Voltage T_=125°C	lr	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.



## MBR1040CT~MBR10200CT





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### Part No\_packing code\_Version

MBR1040CT\_T0\_00001 MBR1040CT\_00001 MBR1040CT\_T0\_10001 MBR1040CT\_10001

### For example :

RB500V-40\_R2\_00001

Part No.

**Serial number** Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX					Version Code XXXXXX				
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)	A	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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