

### 20 AMPERES SCHOTTKY BARRIER RECTIFIERS

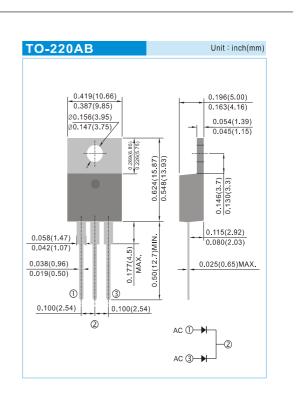
VOLTAGE 40 to 200 Volt CURRENT 20 Ampere

#### 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: TO-220AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- Weight: 0.067 ounces, 1.89 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%

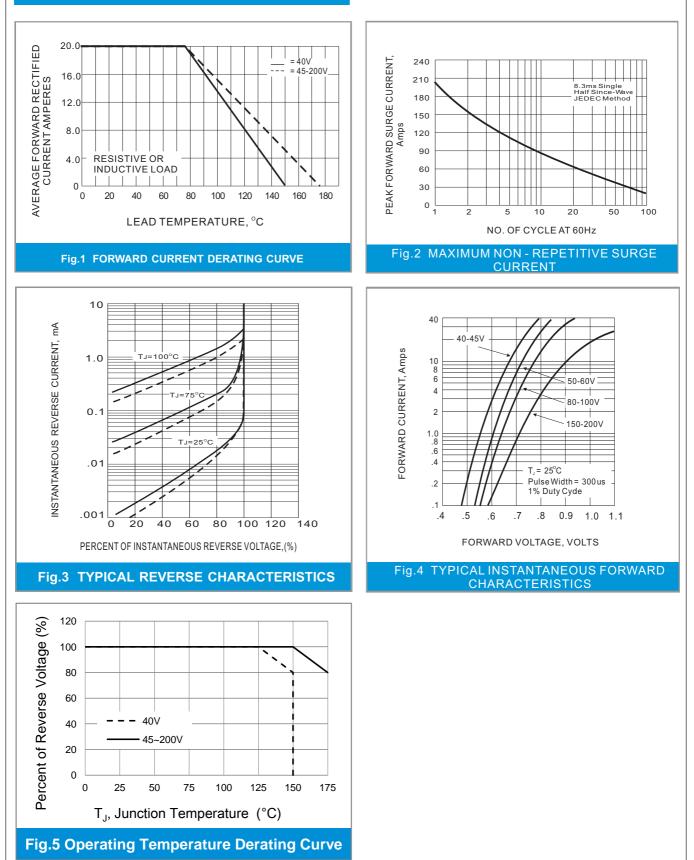
PARAMETER	SYMBOL	MBR2040CT	MBR2045CT	MBR2050CT	MBR2060CT	MBR2080CT	MBR2090CT	MBR20100CT	MBR20150CT	MBR20200CT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	40	45	50	60	80	90	100	150	200	۷
Maximum RMS Voltage	V <sub>rms</sub>	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	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		۷	
Maximum DC Reverse Current at Rated DC T <sub>J</sub> =25 °C Blocking Voltage T <sub>J</sub> =125°C	I <sub>R</sub>	0.05 20						mA			
Typical Thermal Resistance	R <sub>ejc</sub>	2						°C / W			
Operating Junction and Storage Temperature Range	Tj,Tstg	-50 to + 150 -65 to +175					٥C				

Notes :

Both Bonding and Chip structure are available.











## Part No\_packing code\_Version

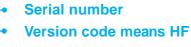
MBR2040CT\_T0\_00001

## For example :

RB500V-40\_R2\_00001

Т

Part No.



- 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)	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						



# MBR2040CT~MBR20200CT

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