



20 AMPERES SCHOTTKY BARRIER RECTIFIERS

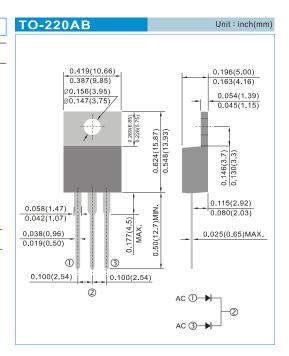
VOLTAGE 40 to 200 Volts CURRENT 20 Amperes

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
- 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	MBR2040CT	MBR2045CT	MBR2050CT	MBR2060CT	MBR2080CT	MBR2090CT	MBR20100CT	MBR20150CT	MBR20200CT	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	٧
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See fig.1)	I _{F(AV)}	20						А			
Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load(JEDEC method)	I _{FSM}	200						A			
Maximum Forward Voltage at 10A, per leg	V _F	0.7		0.75		0.8		0.9		V	
Maximum DC Reverse Current T _J =25 °C at Rated DC Blocking Voltage T _J =125°C	I _R	0.05 20						mA			
Typical Thermal Resistance	R _{eJC}	2						°C /			
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-50 to + 150 -65 to +175						°C			

Notes:

Both Bonding and Chip structure are available.





RATING AND CHARACTERISTIC CURVES

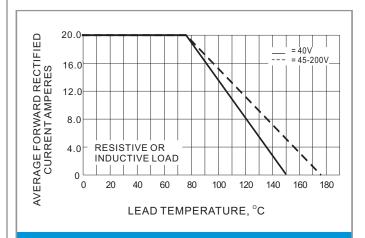


Fig.1- FORWARD CURRENT DERATING CURVE

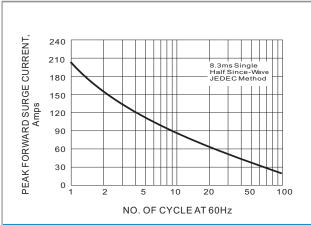


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

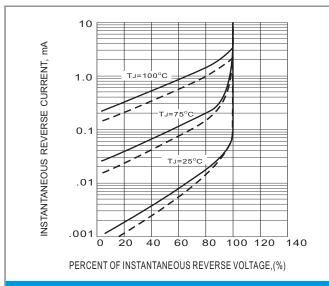


Fig.3- TYPICAL REVERSE CHARACTERISTICS

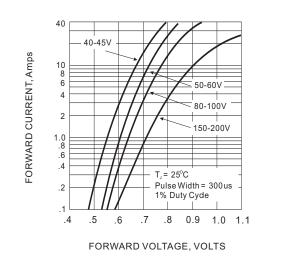


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





Part No_packing code_Version

MBR2040CT_T0_00001 MBR2040CT_T0_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 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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