

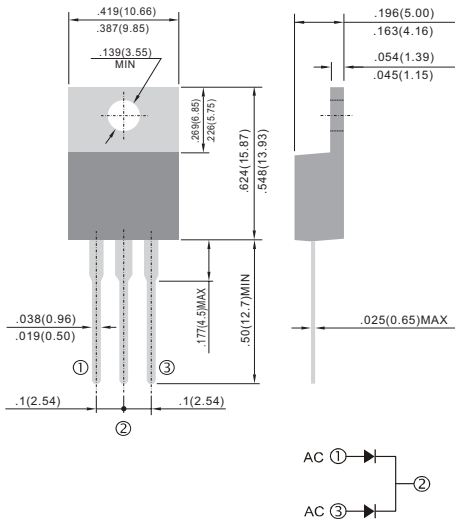
MBR2040CT ~ MBR20200CT

20 AMPERES SCHOTTKY BARRIER RECTIFIERS
VOLTAGE 40 to 200 Volts CURRENT 20 Amperes



TO-220AB

Unit : inch(mm)



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 overvoltage protection
- For use in low voltage, high frequency inverters free wheeling , and polarity 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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

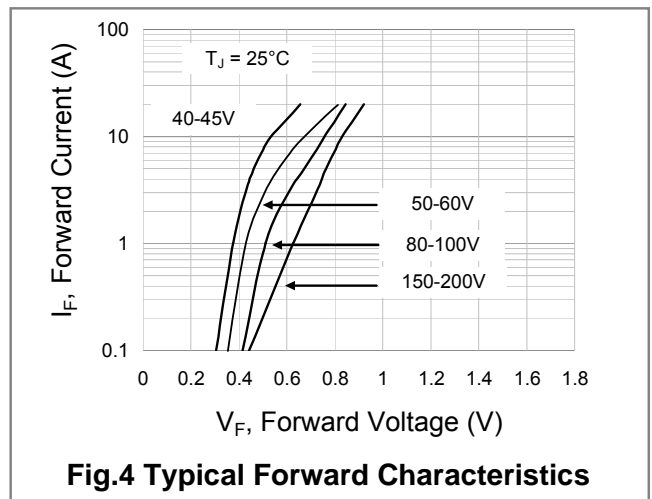
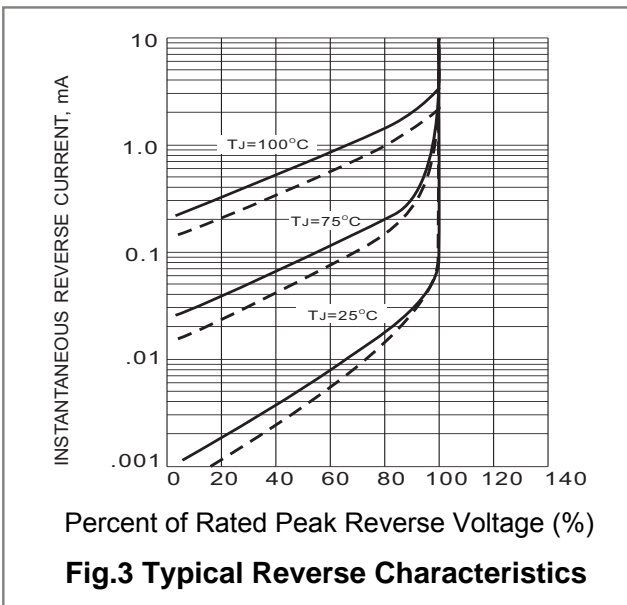
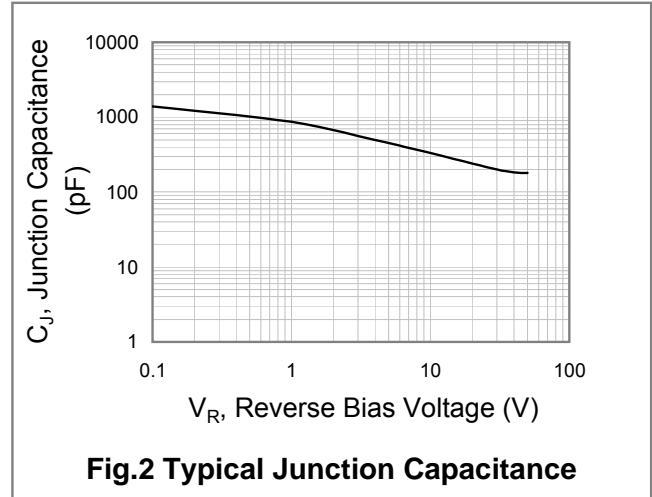
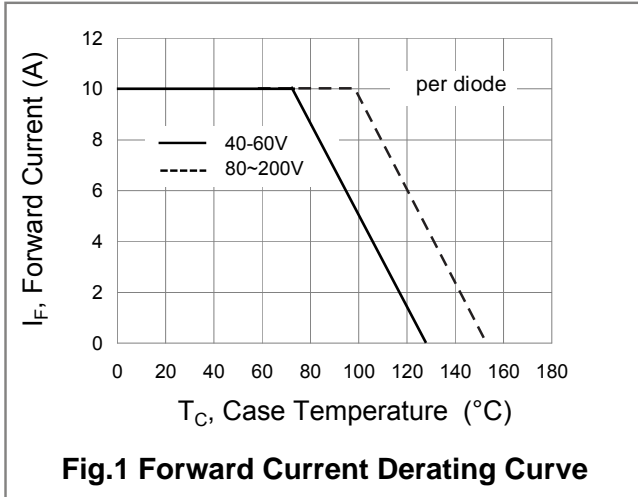
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBR 2040CT	MBR 2045CT	MBR 2050CT	MBR 2060CT	MBR 2080CT	MBR 2090CT	MBR 20100CT	MBR 20150CT	MBR 20200CT	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	V	
Maximum DC Blocking Voltage	V_{DC}	40	45	50	60	80	90	100	150	200	V	
Maximum Average Forward Current (See fig.1) per diode	$I_{F(AV)}$	20 10									A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	250									A	
Maximum Forward Voltage at 10A, per leg	V_F	0.55		0.7		0.85		0.95			V	
Maximum DC Reverse Current $T_j=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_j=125^\circ\text{C}$	I_R	0.2 20									mA	
Typical Thermal Resistance	$R_{\theta JC}$	2									$^\circ\text{C} / \text{W}$	
Operating and Storage Junction Temperature Range	T_j, T_{STG}	-55 to +125					-55 to +150					$^\circ\text{C}$

Notes :
 Both Bonding and Chip structure are available.

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RATINGS AND CHARACTERISTIC CURVES



The cruve graph is for reference only, can't be the basis for judgment