

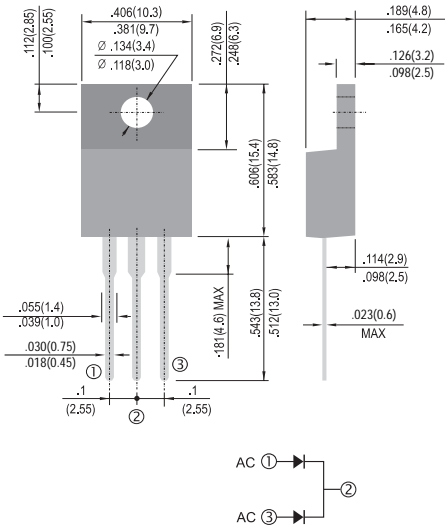
MBR2040FCT ~ MBR20200FCT

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



ITO-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: ITO-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%

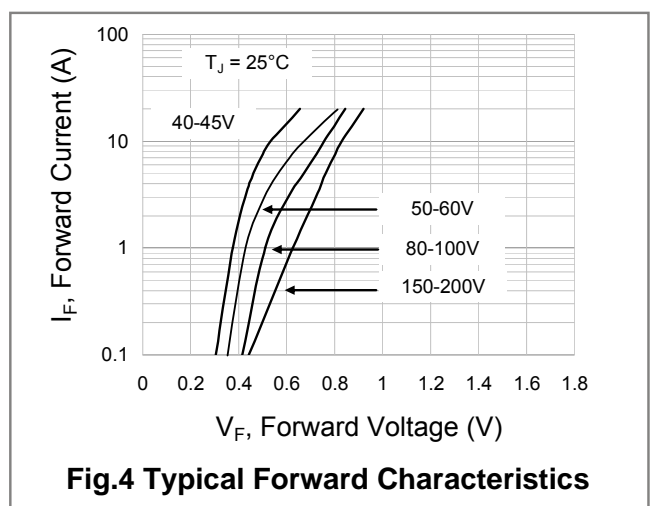
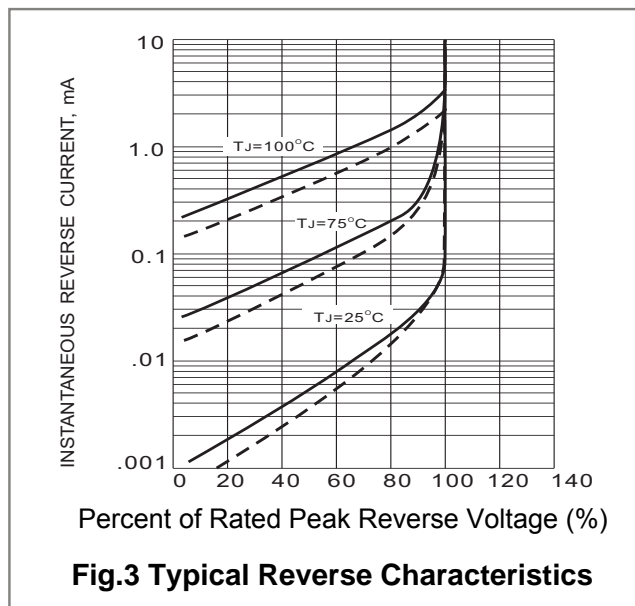
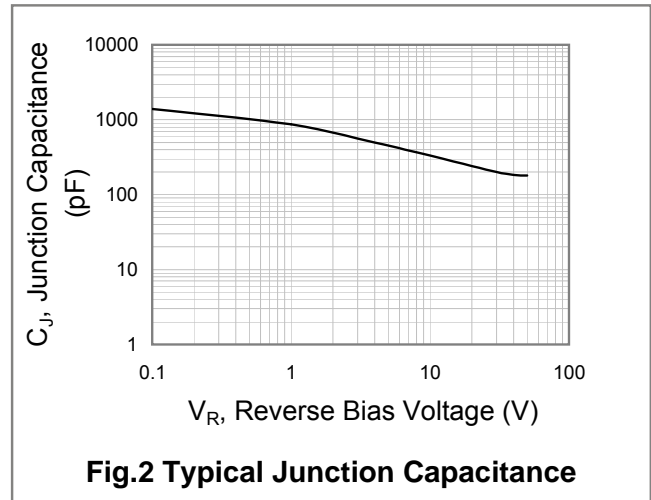
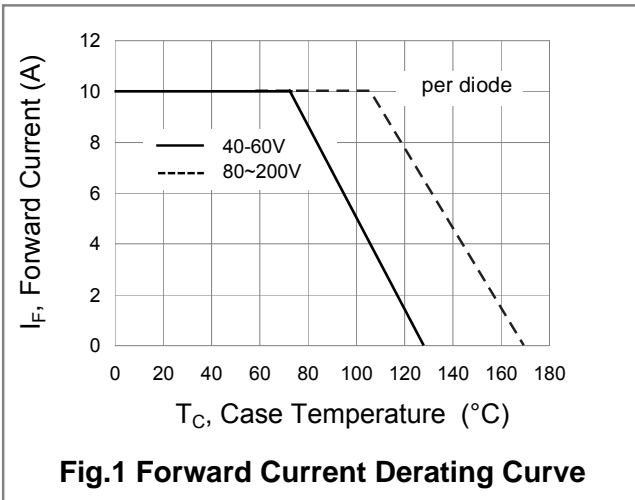
PARAMETER	SYMBOL	MBR 2040FCT	MBR 2045FCT	MBR 2050FCT	MBR 2060FCT	MBR 2080FCT	MBR 2090FCT	MBR 20100FCT	MBR 20150FCT	MBR 20200FCT	UNITS	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	50	60	80	90	100	150	200	V	
Maximum RMS Voltage	V_{RMS}	28	31.5	35	42	56	63	70	105	140	V	
Maximum DC Blocking Voltage	V_{DC}	40	45	50	60	80	90	100	150	200	V	
Maximum Average Forward Current (See fig.1)	$I_{F(AV)}$	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 $T_J=25^{\circ}C$ at Rated DC Blocking Voltage $T_J=125^{\circ}C$	I_R	0.2 20									mA	
Typical Thermal Resistance	$R_{\theta JC}$	2									$^{\circ}C / W$	
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-55 to + 125					-55 to +175					$^{\circ}C$

Notes :

Both Bonding and Chip structure are available.

MBR2040FCT ~ MBR20200FCT

RATINGS AND CHARACTERISTIC CURVES



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