

MBR2040FCT SERIES

20 AMPERES SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 40 to 200 Volts CURRENT

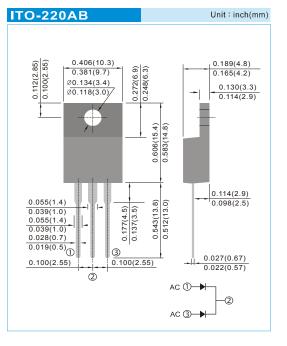
20 Amperes

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
- 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: ITO-220AB molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- Mounting Position: Any
- Weight: 0.055 ounces, 1.5615 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%

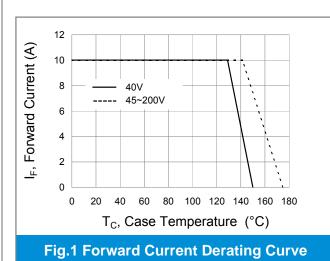
PARAMETER	SYMBOL	MBR2040FCT	MBR2045FCT	MBR2050FCT	MBR2060FCT	MBR2080FCT	MBR2090FCT	MBR20100FCT	MBR20150FCT	MBR20200FCT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	v
Maximum RMS Voltage	V _{RMS}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	Vdc	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See fig.1)	I _{F(AV)}	20							A		
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,=25°C at Rated DC Blocking Voltage T,=125°C	I _R	0.05 20						mA			
Typical Thermal Resistance	$R_{_{ ext{ hetaJC}}}$	2						°C / W			
Operating and Storage Junction Temperature Range	Tj,Tstg	55 to + 15065 to +175							°C		

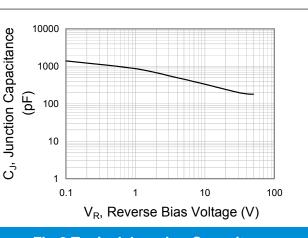
Notes :

Both Bonding and Chip structure are available.



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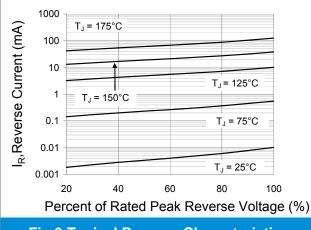
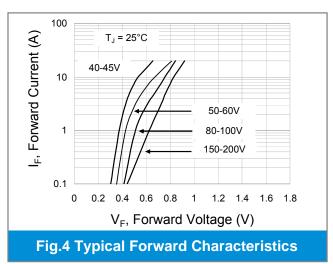


Fig.3 Typical Reverse Characteristics







MBR2040FCT SERIES

Part No_packing code_Version

MBR2040FCT_T0_00001 MBR2040FCT_00001 MBR2040FCT_T0_10001 MBR2040FCT_10001

For example :

RB500V-40_R2_00001



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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