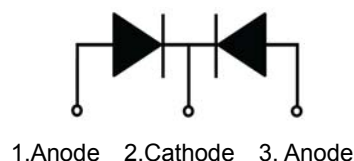
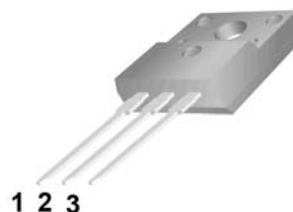


MBR1040FCT-MBR10200FCT

Features:

- Low power loss,high efficiency.
High surge capacity
- For use in low voltage,high frequency inverters,
free wheeling,and polarity protection applications.
- Metal silicon junction,majority carrier conduction.
- High current Capability,low forward voltage drop.
- Guard ring for over voltage protection.

TO-220F



1.Anode 2.Cathode 3. Anode

Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	MBR 1040 FCT	MBR 1045 FCT	MBR 1050 FCT	MBR 1060 FCT	MBR 1080 FCT	MBR 1090 FCT	MBR 10100 FCT	MBR 10150 FCT	MBR 10200 FCT	Unit
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	
Maximum DC Blocking Voltage	V _{R(DC)}	40	45	50	60	80	90	100	150	200	
Maximum Average Forward Current	I _{F(AV)}	10									A
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	100									
Maximum Forward Voltage at 4A per leg	V _F	0.65		0.72		0.82		0.92		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _j =25°C	0.1									mA
	T _j =125°C	20									
Maximum Operating Junction Temperature	T _j	150		175						°C	
Storage Temperature	T _{stg}	-55~+150		-65~+175							
Typical Thermal Resistance	R _{θJC}	1.4									°C/W

Typical Characteristics

RATING AND CHARACTERISTIC CURVES

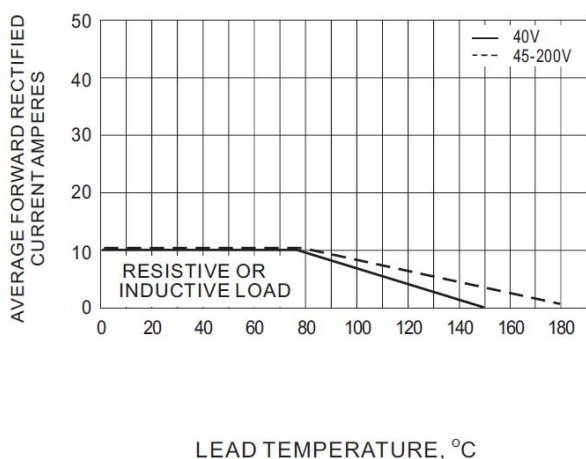


Fig.1 FORWARD CURRENT ERATING CURVE

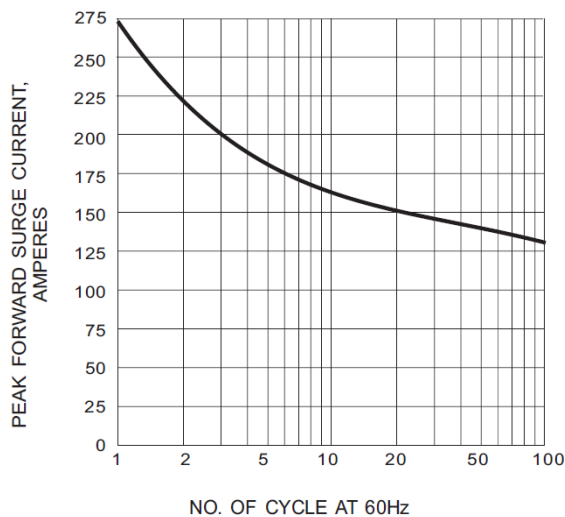


Fig.2 MAXIMUM NON-REPETITIVE SURGE CURRENT

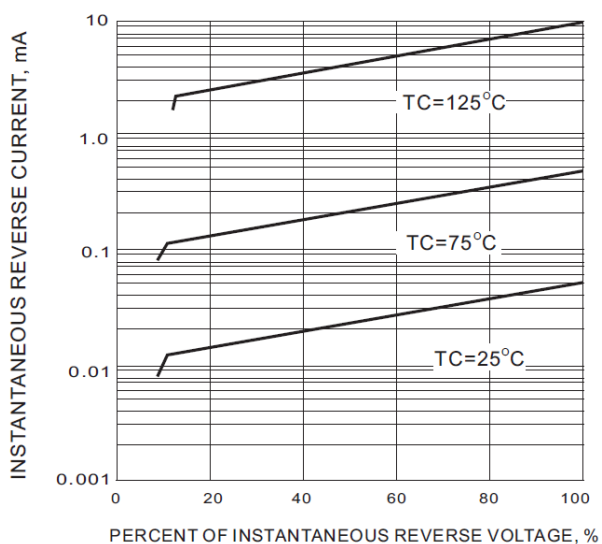


Fig.3 TYPICAL REVERSE CHARACTERISTIC

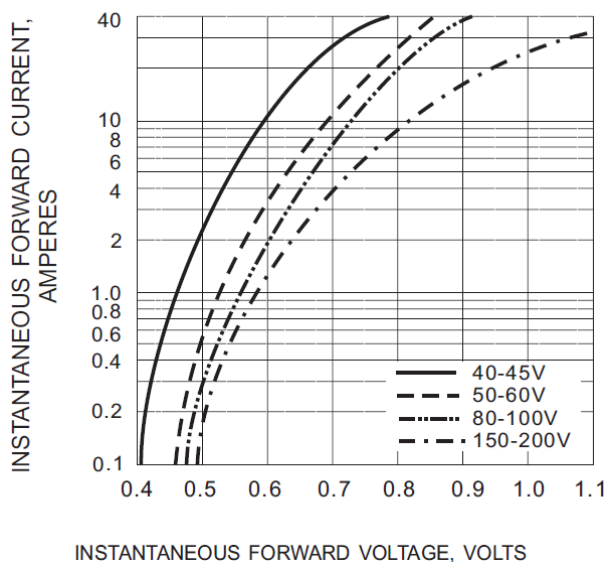


Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

Package Dimension

TO-220F

Units: mm

