



MBR1020FCT~MBR10200FCT

10.0Amp Schottky Barrier Rectifiers

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed
250°C/10 seconds at terminals

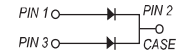
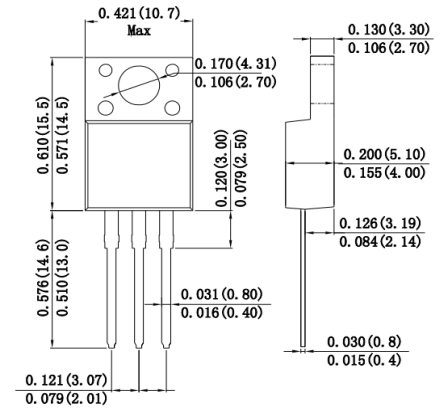
Mechanical Data

Case : Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750,Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

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

PARAMETER	SYMBOL	MBR 1020FCT	MBR 1040FCT	MBR 1050FCT	MBR 1060FCT	MBR 1080FCT	MBR 10100FCT	MBR 10150FCT	MBR 10200FCT	UNIT
Maximum repetitive peak reverse voltage	VRRM	20	40	50	60	80	100	150	200	V
Maximum RMS voltage	VRMS	14	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	VDC	20	40	50	60	80	100	150	200	V
Maximum average forward rectified current (Per leg)	IF	10.0 5.0								A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	120.0								A
Maximum instantaneous $I_F=5A@25^{\circ}C$ Forward Voltage $I_F=5A@100^{\circ}C$	V _F	0.70 0.60		0.75 0.65		0.85 0.75		0.92 0.80		V
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=100°C	I _R	0.1 10.0								mA
Typical Junction Capacitance	C _J	270		200		150		100		pF
Typical Thermal Resistance	R _{θJC}	3								°C/W
Operating Temperature Range	T _J	-55 to +150								°C
Storage Temperature Range	T _{STG}	-55 to +175								°C



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Ratings And Characteristic Curves

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

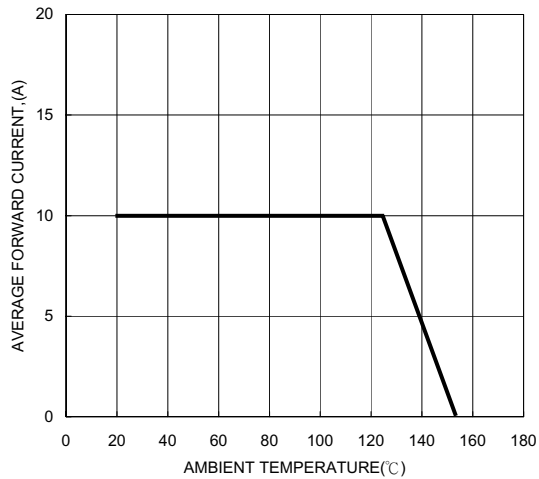


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

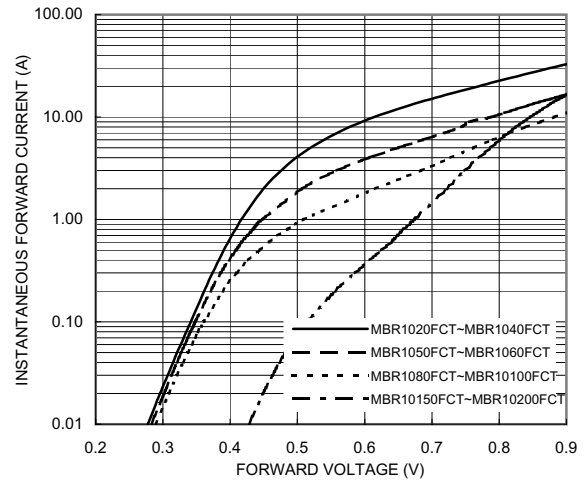


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

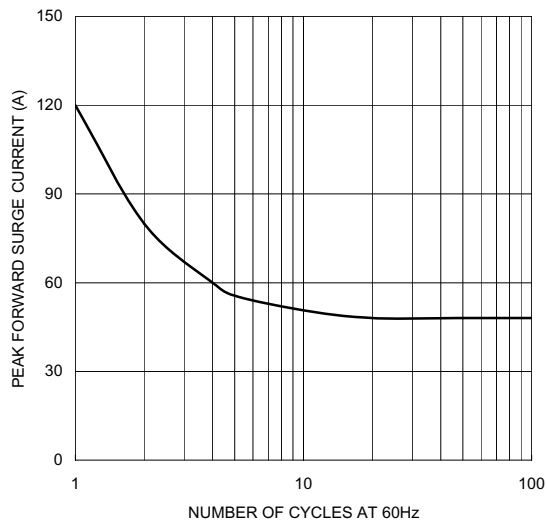


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

