WILLAS

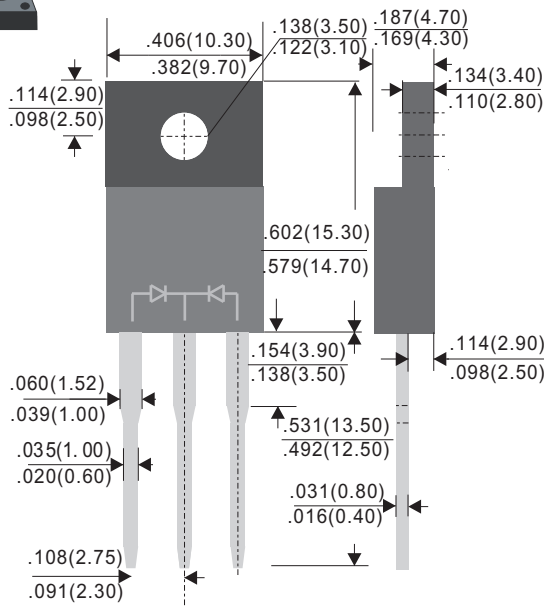
MBR2020CF THRU MBR20200CF

Pb Free Product

20.0 AMP SCHOTTKY BARRIER RECTIFIERS

ITO-220 PACKAGE





Dimensions in inches and (millimeters)

FEATURES

* Low switching noise
* Low forward voltage drop
* High current capability
* High reliability
* High surge capability
* RoHS product for packing code suffix "G"
  Halogen free product for packing code suffix "H"
* EPI WAFER

MECHANICAL DATA

* Case: ITO-220 Molded plastic
* Epoxy: UL 94V-O rate flame retardant
* Lead: MIL-STD-202E method 208C guaranteed
* Mounting position: Any
* Weight: 1.7 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATINGS	SYMBOL	MBR 2020CF	MBR 2040CF	MBR 2050CF	MBR 2060CF	MBR 2080CF	MBR 20100CF	MBR 20150CF	MBR 20200CF	UNIT
Marking Code		MBR 2020CF	MBR 2040CF	MBR 2050CF	MBR 2060CF	MBR 2080CF	MBR 20100CF	MBR 20150CF	MBR 20200CF	
Maximum Recurrent Peak Reverse Voltage	VRRM	20	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	VRMS	14	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	VDC	20	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current	IO	20.0								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150								Amps
Typical Thermal Resistance (Note 1)	RΘJC	3.0								℃/W
Typical Junction Capacitance (Note 2)	CJ	400		300		270			210	PF
Operating Temperature Range	TJ	-55 to +150								℃
Storage Temperature Range	TSTG	-55 to +175								℃

CHARACTERISTICS		SYMBOL	MBR 2020CF	MBR 2040CF	MBR 2050CF	MBR 2060CF	MBR 2080CF	MBR 20100CF	MBR 20150CF	MBR 20200CF	UNIT
Maximum Forward Voltage at 10.0A DC, pre leg		VF	0.64		0.74		0.83		0.87		Volts
Maximum Average Reverse Current at	@TA=25℃	IR	0.2								mAmps
Rated DC Blocking Voltage	@TA=125℃		20								

NOTES :1. Thermal Resistance (Junction to Case): Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

WILLAS

20.0 AMP SCHOTTKY BARRIER RECTIFIERS
ITO-220 PACKAGE

MBR2020CF THRU MBR20200CF

Pb Free Product

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

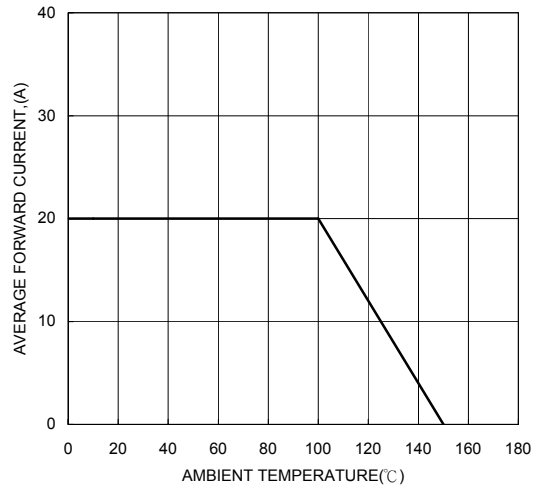


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

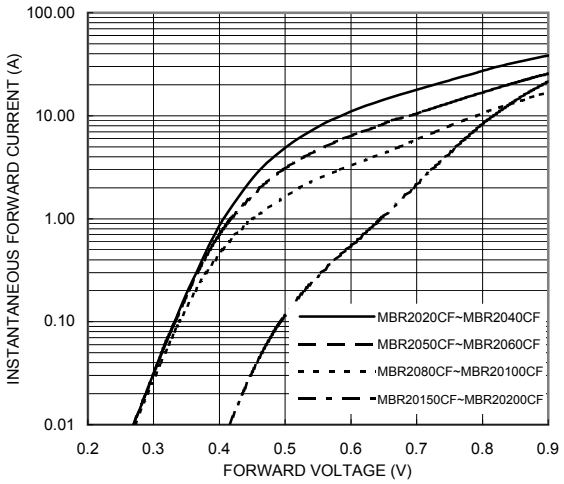


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

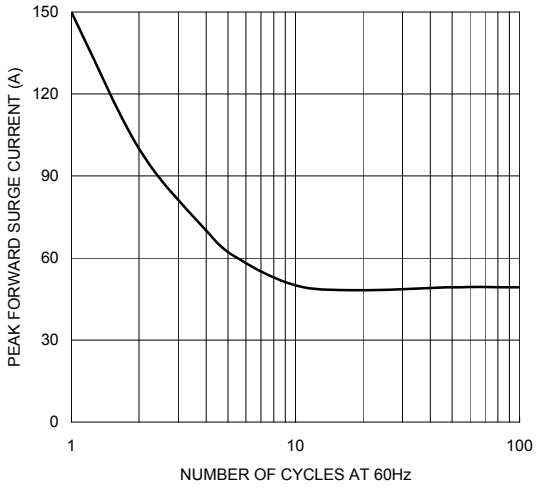


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

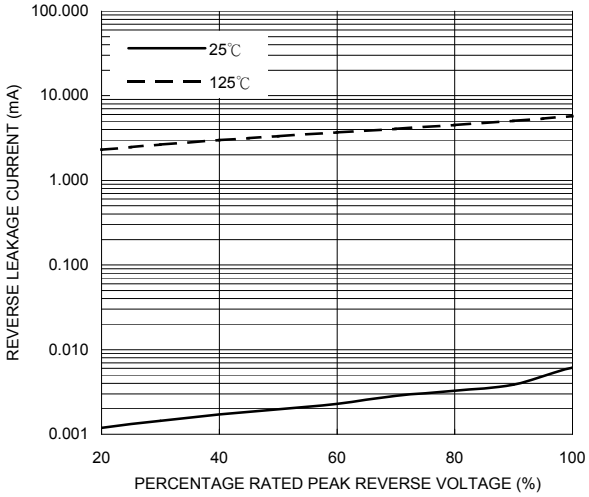


FIG. 5-TYPICAL JUNCTION CAPACITANCE

