

MBR2060FLCT Thru MBR20100FLCT

20.0AmpLOW VF Schottky Barrier Rectifiers

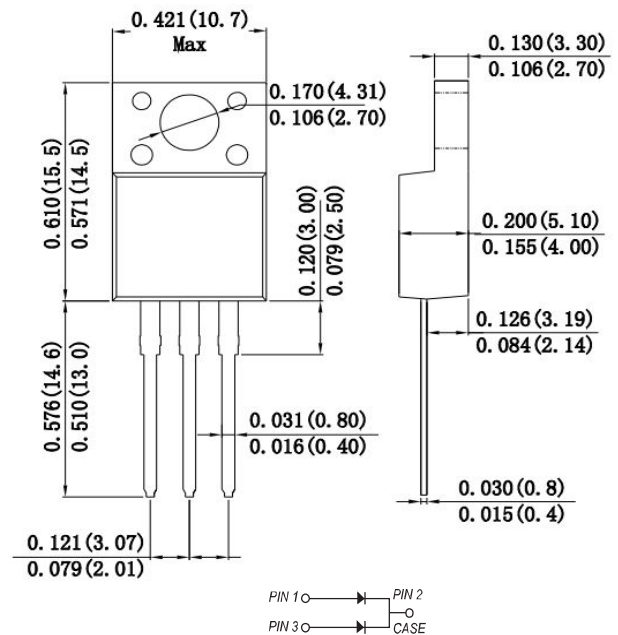
ITO-220AB

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

Terminals : Pure tin plated leads, solderable per MIL-STD-202, Method 208 guaranteed
 Polarity : Polarity symbol marking on body
 Mounting torque: 5 in- lbs, max
 Weight: 1.91 grams



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%.

Type Number	Symbol	MBR 2060FLCT	MBR 20100FLCT	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	60	100	V
Maximum RMS Voltage	VRMS	42	70	V
Maximum DC Blocking Voltage	VDC	60	100	V
Maximum Average Forward Rectified Current	IF	20		A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	120		A
Maximum Instantaneous Forward Voltage @10A	VF	0.6	0.75	V
Maximum Reverse Current @ Rated VR TA=25 °C TA=125 °C	IR	100 1500		uA
Typical Junction Capacitance (Note 1)	Cj	320		pF
Typical Thermal Resistance(Note 2)	RθJA	30		°C/w
Operating and Storage Temperature Range	TJ	-65--+15		°C

NOTE1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

NOTE2. Leads maintained at ambient temperature at a distance of 9.5mm from the case

Ratings And Characteristic Curves

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FIG. 1 – FORWARD CURRENT DERATING CURVE

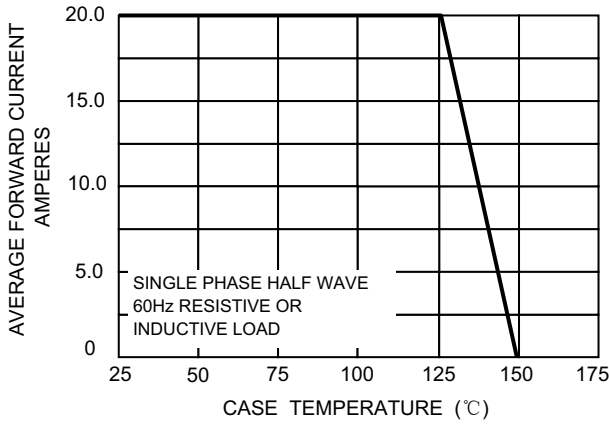


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

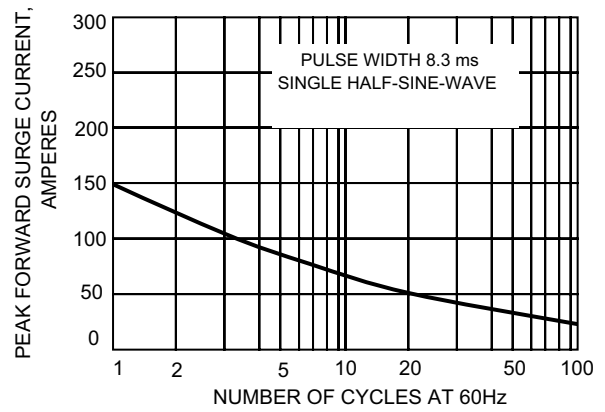


FIG.3-TYPICAL REVERSE CHARACTERISTICS

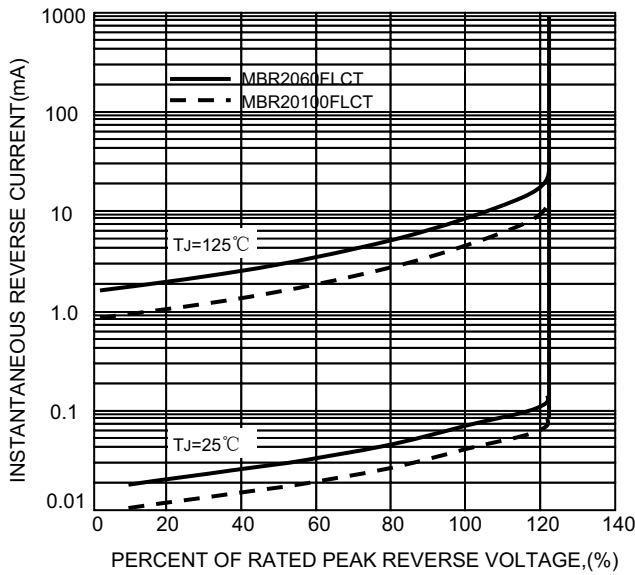


FIG.4-TYPICAL FORWARD CHARACTERISTICS

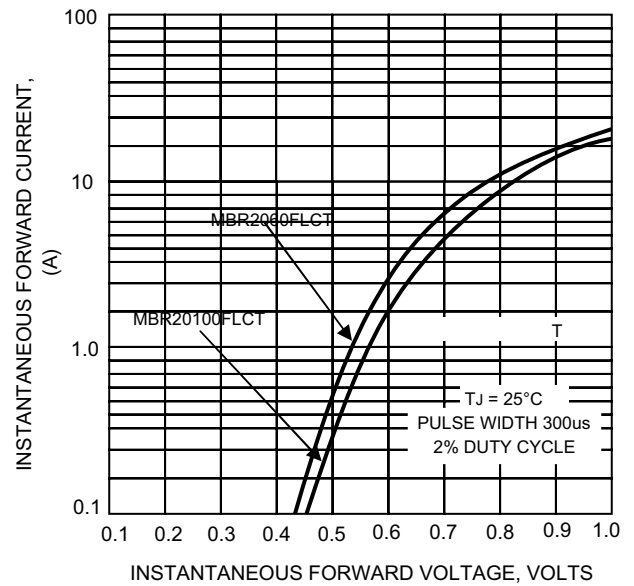


FIG.5 – TYPICAL JUNCTION CAPACITANCE

