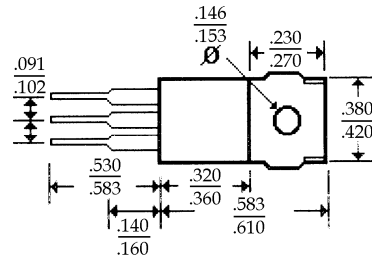
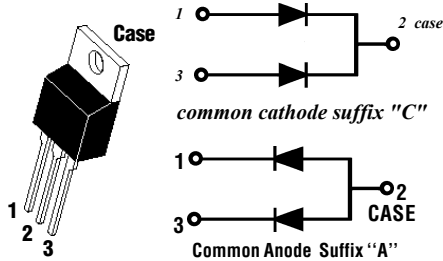


Description

Mechanical Dimensions

FBR10200



(Dimensions in inches)

TO-220AB

Dimension in mm

Feature	Mechanical Data
■ Low Forward Voltage Drop	■ Case: ITO-220AB Molded Plastic
■ High Current Capability	■ Epoxy: UL94-V Rate Flame Retardant
■ High Reliability	■ Terminals: Lead Solderable per MIL-STD-202 Method 208 Guaranteed
■ High Surge Current Current capability	■ Weight: 1.9 grams(approx.)
■ Outline Free Pb	

Max Ratings at Ta=25C Unless Otherwise Specified

Characteristic	Symbol	FBR10200	Unit
Peak Repetitive Reverse Voltage	Vrrm	200	V
working Peak Reverse Voltage	Vrwm	200	V
DC Blocking Voltage	Vdc	200	V
RMS Reverse Voltage	Vr(rms)	140	V
Forward Continuous Current ; per leg/ package	IF(AV)	5/10	A
non-Repetitive peak Surge Current Halfwave single phase, 60Hz	IFSM	150	A
Max Forward Voltage IF=5A/10A @25C	Vf	0.88/0.75	V
Max Forward Voltage IF=5A/10A @125C		0.97/0.85	
Reverse Leakage Current; note. 1@ 25C/125C	Ir	0.005/1.0	mA
Operating & storage Temp. Range	Tj/Ts	-65~+175	C
Thermal Resistance Junction to Case	Rthjc	4.0	C/W
Typical Diode Capacitance Vr=-5V, f=1.0MHz	Cd	250	pF

Note: 2. Pulse width<=300us, duty cycle<=1%

Ratings and Characteristics Curves

($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

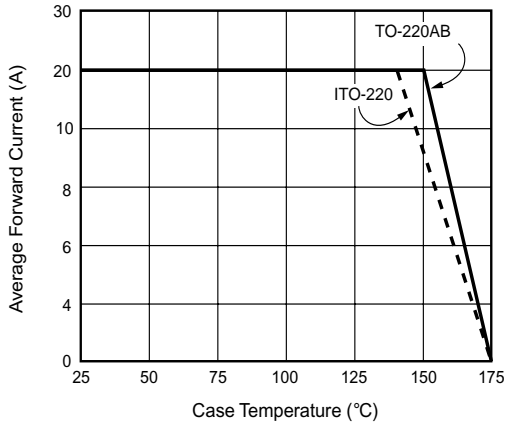


Figure 1. Forward Derating Curve (Total)

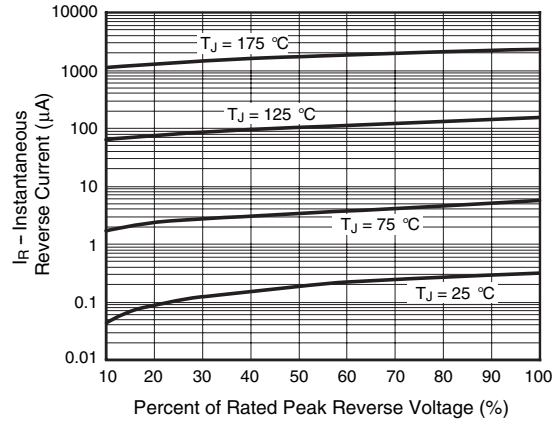


Figure 4. Typical Reverse Characteristics Per Leg

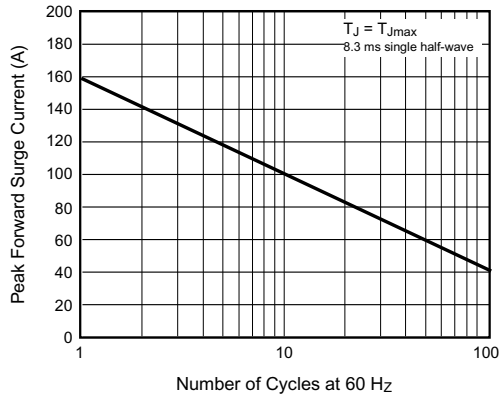


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

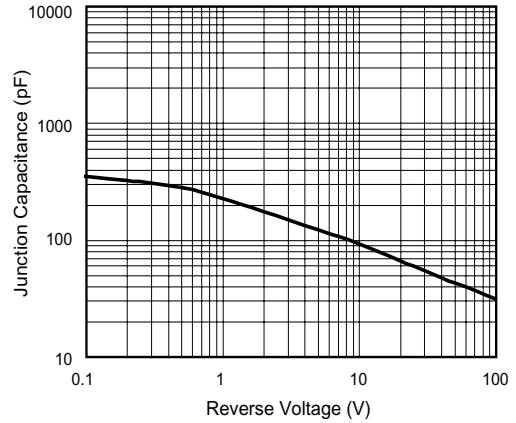


Figure 5. Typical Junction Capacitance Per Leg

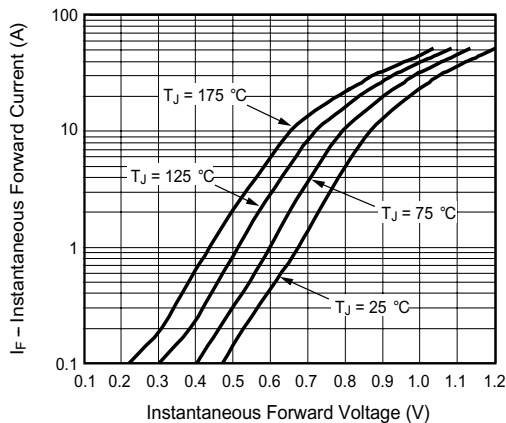


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

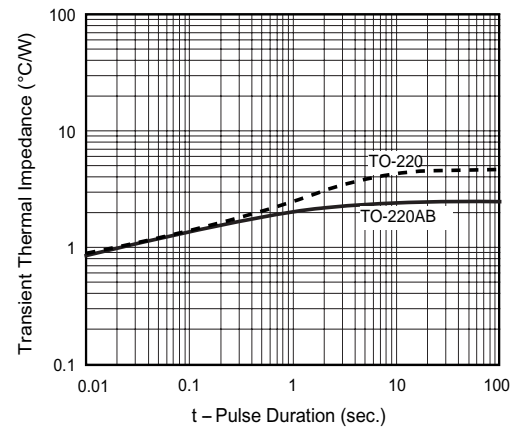


Figure 6. Typical Transient Thermal Impedance Per Leg

FBRI0200

For FCI Application