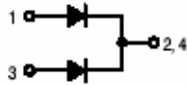
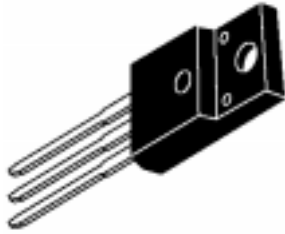


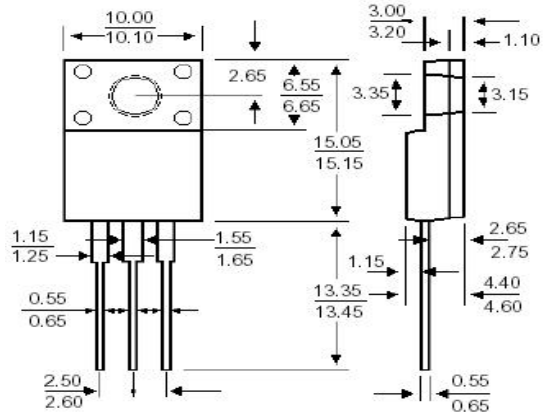
**Description**

**Mechanical Dimensions**

**FBRF10200**



**ITO-220AB**



**Dimension in mm**

**Feature**

- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Current capability
- Outline Free Pb

**Mechanical Data**

- Case: ITO-220AB Molded Plastic
- Epoxy: UL94-V Rate Flame Retardant
- Terminals: Lead Solderable per MIL-STD-202 Method 208 Guaranteed
- Weight: 1.9 grams(approx.)

**Max Ratings at Ta=25C Unless Otherwise Specified**

Characteristic	Symbol	FBRF10200	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)

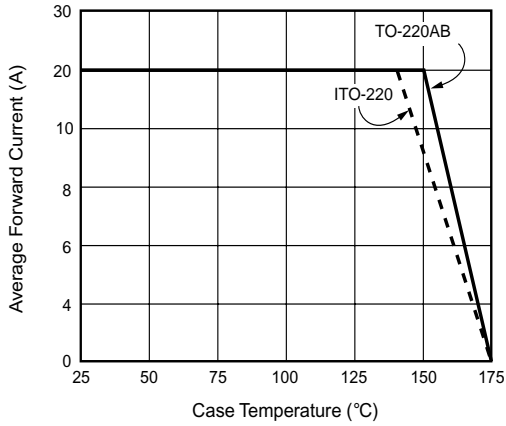


Figure 1. Forward Derating Curve (Total)

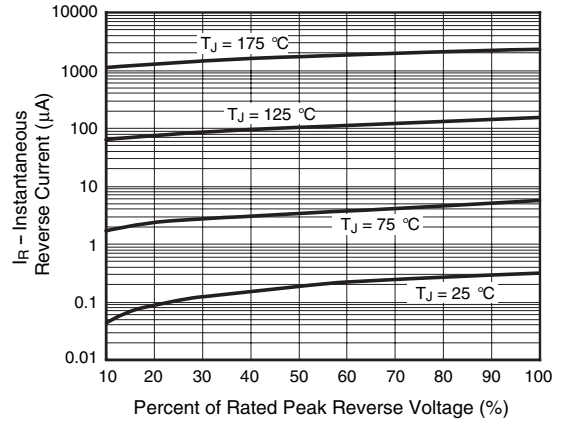


Figure 4. Typical Reverse Characteristics Per Leg

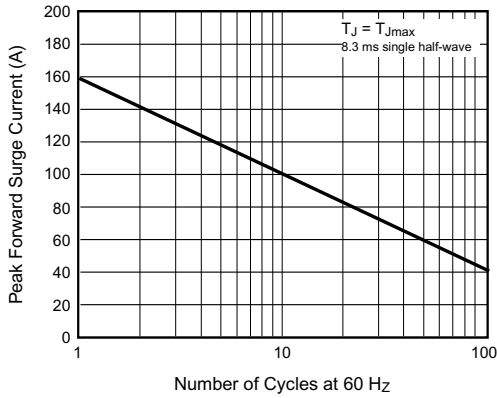


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

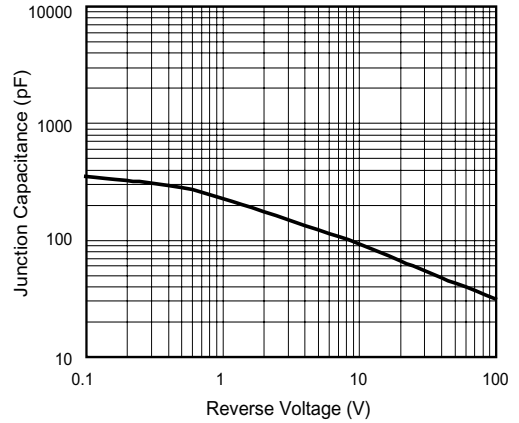


Figure 5. Typical Junction Capacitance Per Leg

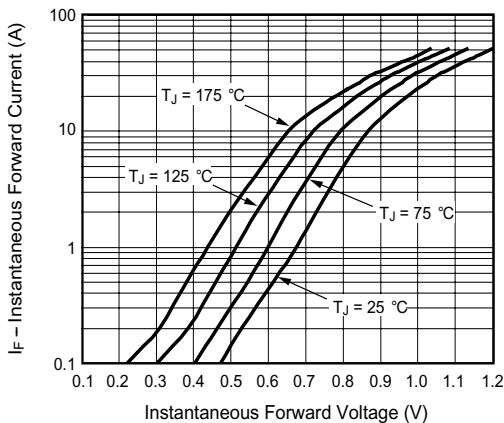


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

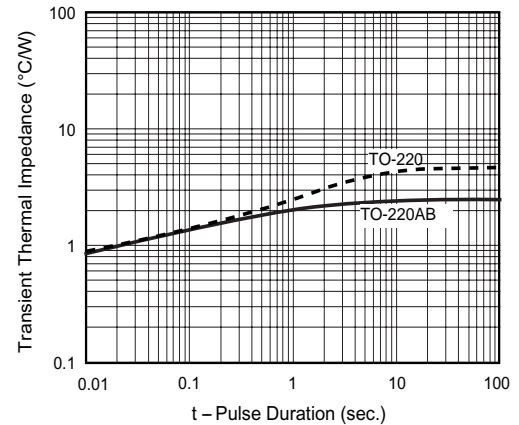


Figure 6. Typical Transient Thermal Impedance Per Leg

**FBRF10200**