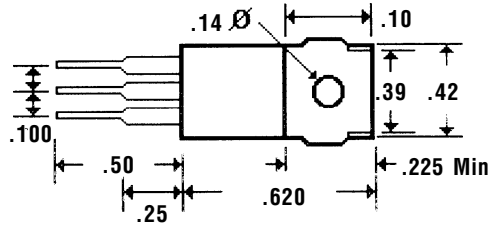
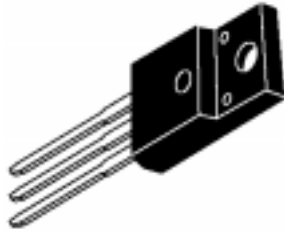


**Description**

**Mechanical Dimensions**

FBRF2020&20100



ITO-220AB

Dimension in inch

**FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

**MECHANICAL DATA**

- Case: ITO-220AB Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-202, Method 208
- Polarity: As marked.
- Standard packaging: Any
- Weight: 0.08 ounces, 2.24grams.

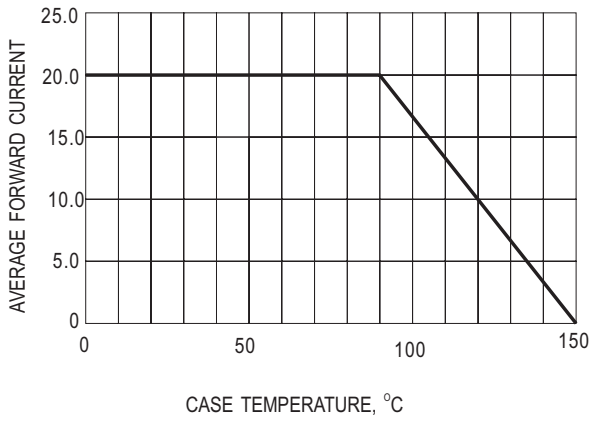
FBRF20xxx Series

	2020C	2030C	2040C	2050C	2060C	2080C	20100C	UNIT
Maximum Recurrent Peak Reverse Voltage	20.0	30.0	40.0	50.0	60.0	80.0	100.0	V
Maximum RMS Voltage	14.0	21.0	28.0	35.0	42.0	56.0	70.0	V
Maximum DC Blocking Voltage	20.0	30.0	40.0	50.0	60.0	80.0	100.0	V
Maximum Average Forward Rectified Current at Tc=90°C	20							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	150							A
Maximum Instantaneous Forward Voltage at 10.0A per element	0.55		0.75			0.85		v
Maximum DC Reverse Current (Note 1) Ta=25°C at Rated DC Blocking Voltage Ta=100°C				0.5				mA
Typical Thermal Resistance Note RθJA				100				°C/W
Operating and Storage Temperature Range T <sub>J</sub>				-50 to +150				°C

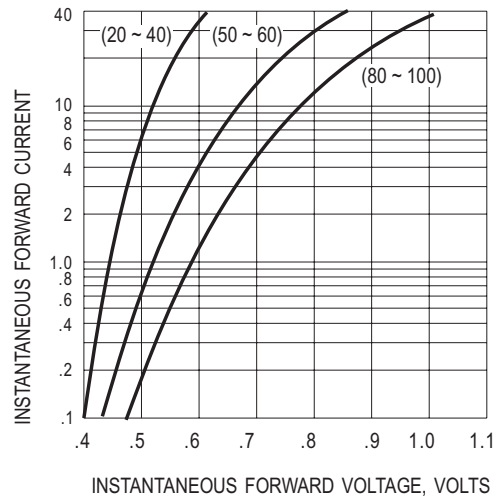
NOTES:

1. Thermal Resistance Junction to Ambient .

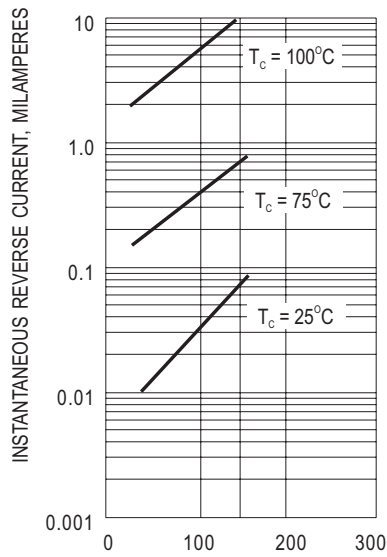
**RATING AND CHARACTERISTIC CURVES**



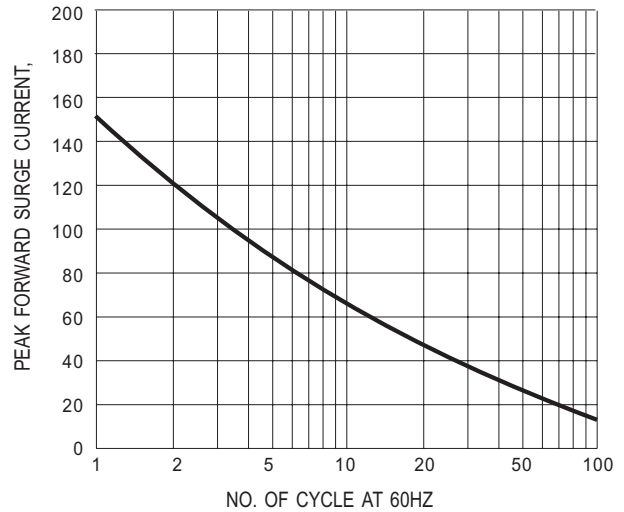
**Fig.1- FORWARD CURRENT DERATING CURVE**



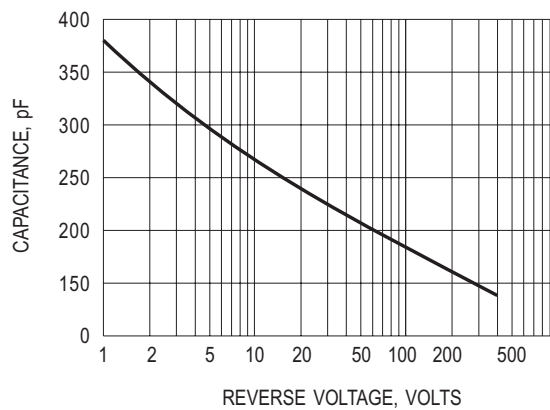
**Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC**



**Fig.3- TYPICAL REVERSE CHARACTERISTIC**



**Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT**



**Fig.5- TYPICAL JUNCTION CAPACITANCE**