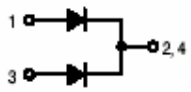
Semiconductor *Data Sheet*

20Amp SCHOTTKY BARRIER RECTIFIERS

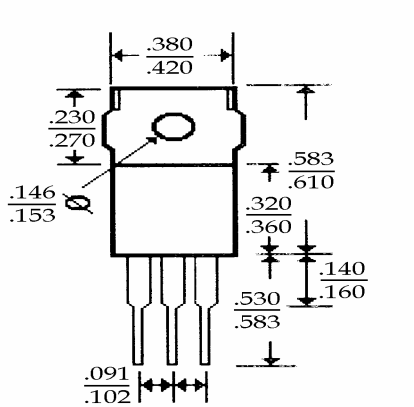
FBR20200

Description



TO-220AB

Mechanical Dimensions



(Dimensions in inches)

Feature

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

Mechanical Data

- Case: TO-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	FBR20200	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)	10/20	mA
non-Repetitive peak Surge Current Halfwave single phase, 60Hz	IFSM	150	A
Max Forward Voltage IF=10A/20A @25C Max Forward Voltage IF=10A/20A @125C	Vf	0.9/1.0 0.8/0.9	V
Reverse Leakage Current; note. 1@ 25C/125C	Ir	1.0/50	mA
Operating & torage Temp. Range	Tj/Ts	-65~+150 / -65~+150	C
Thermal Resistance Junction to Case	Rthjc	2.0	C/W
Typical Diode Capacitance Vr=-5V, f=1.0MHz	Cd	500	pF

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

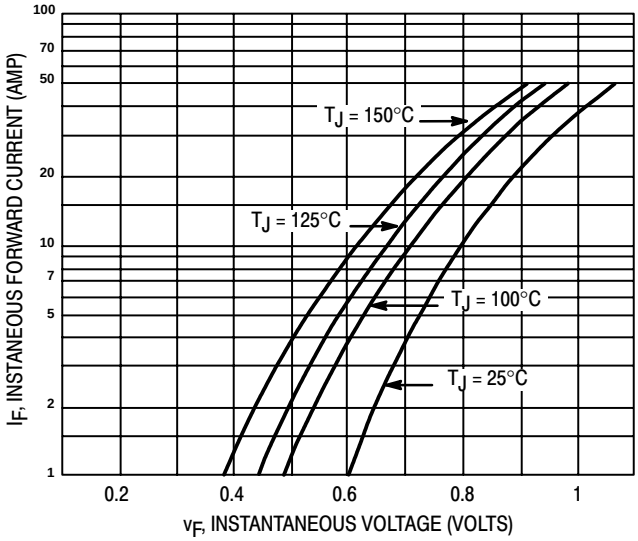


Figure 1. Typical Forward Voltage (Per Leg)

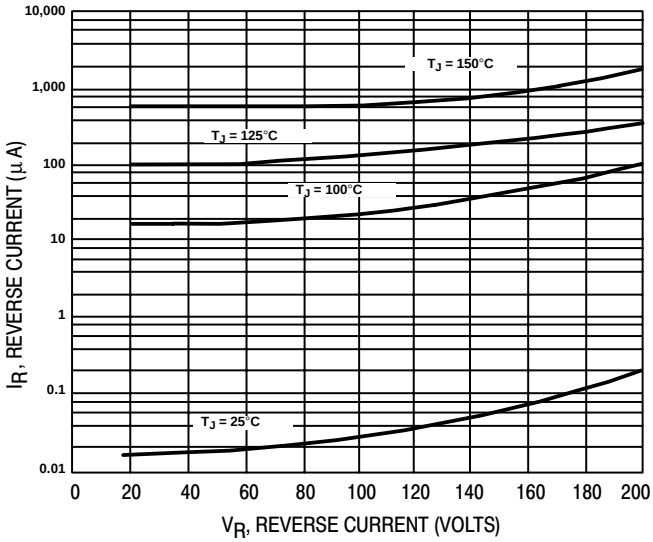


Figure 2. Typical Reverse Current (Per Leg)

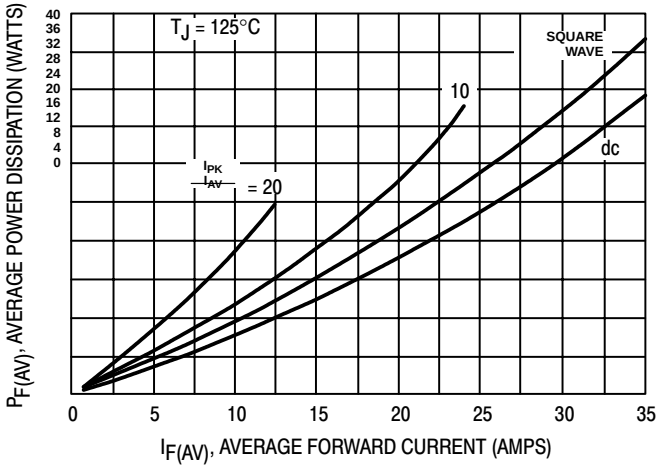


Figure 3. Forward Power Dissipation

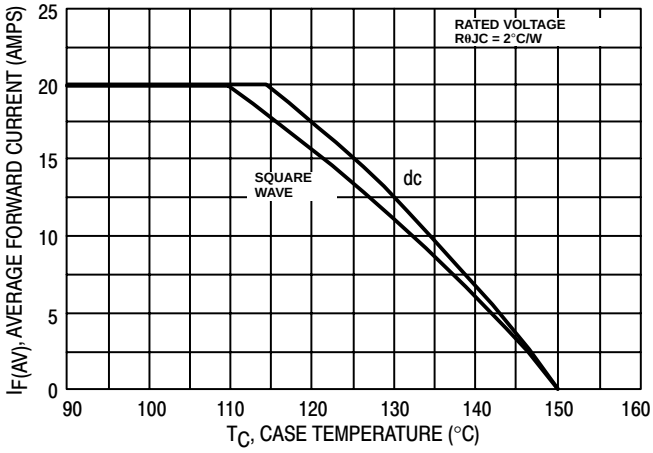


Figure 4. Current Derating, Case

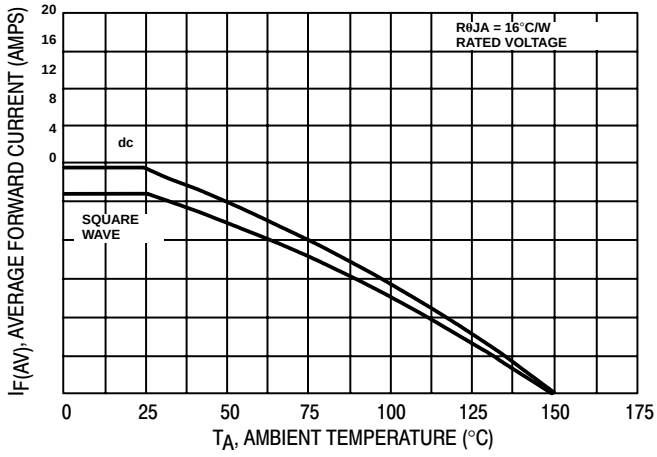


Figure 5. Current Derating, Ambient

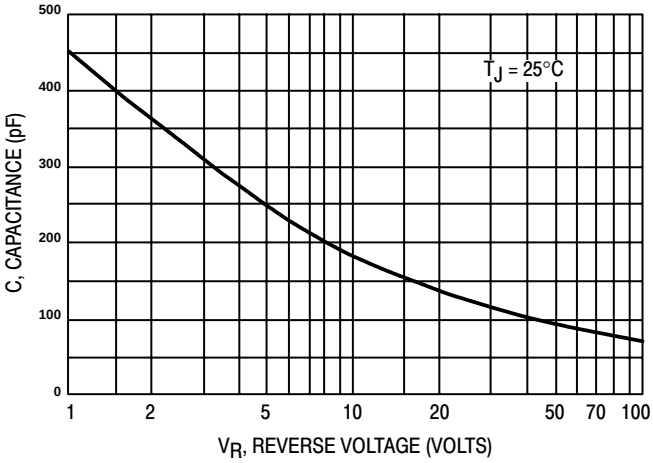


Figure 6. Typical Capacitance (Per Leg)