

RGBJ20005 thru RGBJ2010

20.0A, Fast Recovery Glass Passivated Bridge Rectifier

Rectifier Reverse Voltage 50 to 1000V

Features

- Ideal for printed circuit board mounting
- This series is UL listed under the Recognized Component Index
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High temperature soldering guaranteed 260 °C/5 seconds at 5 lbs (2.3kg) tension

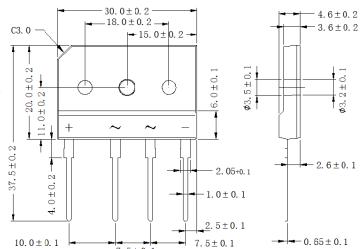
Mechanical Data

Case: Reliable low cost construction utilizing

molded plastic technique

Terminals: Plated leads solderable per MIL-STD-202,

Method 208 Mounting Position: Any



Dimensions in inches and (milimeters)

Maximum Ratings & Thermal CharacteristicsRating at 25 °C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz. For Capacitive load derate current by 20%.

CHARACTERISTICS	SYMBOL	RGBJ 20005	RGBJ 2001	RGBJ 2002	RGBJ 2004	RGBJ 2006	RGBJ 2008	RGBJ 2010	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	30	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2)	Land	20.0							
Rectified Current @ Tc=100°C (without heatsink)	I(AV)	3.5							A
Peak Forward Surage Current									
8.3ms Single Half Sine-Wave	IFSM 240								Α
Super Imposed on Rated Load (JEDEC Method)									
Maximum reverse recovery time (Note 3)	t _{rr}	150				250	500		ns
Maximum Forward Voltage at 10.0A DC	VF	1.3						V	
Maximum DC Reverse Current @ TJ=25℃			10						T
at Rated DC Blocking Voltage @ TJ=125℃	IR 500							uA	
Typical Thermal Resistance (Note2)	Rejc	1.5						°C/W	
Operating Temperature Range	TJ	-55 to +150							$^{\circ}\!\mathbb{C}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}\mathbb{C}$

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

- 2.Device mounted on 300mm*300mm*1.6mm cu plate heatsink.
- 3. Reverse recovery time test conditions: I _F=0.5A, I_R=1.0A, I_{RR}=0.25A

Rating and Characteristic Curves (TA=25°C Unless otherwise noted) RGBJ20005 thru RGBJ2010

