

GBJ/RBV3505/3500 THRU GBJ/RBV3510

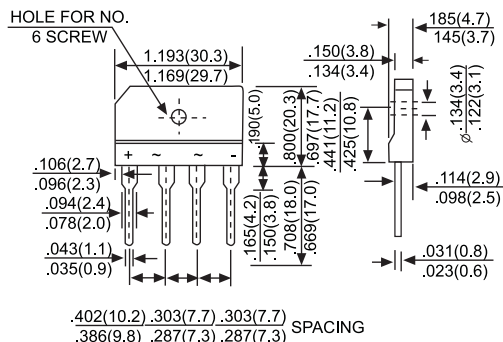
SINGLE PHASE 35AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range
50 to 1000 Volts
Current
35 AmPeres

FEATURES

- UL Recognized File # E-230084
- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The Plastic material has UL flammability classification 94 V-0

KBJ6



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 50Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number		GBJ RBV 35005 3500	GBJ RBV 3501	GBJ RBV 3502	GBJ RBV 3504	GBJ RBV 3506	GBJ RBV 3508	GBJ RBV 3510	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current@T _c = 100°C (without heatsink)	I _{F(AV)}	35							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	I _{FSM}	400							A
Maximum Instantaneous Forward Voltage Drop Per Leg @12.5A	V _F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C T _J = 125°C	I _R	10							uA
I ² t Rating for fusing (t<8.3ms)	I ² t	660							A ² S
Typical Junction Capacitance per Leg (Note 1)	C _J	85							pF
Typical Thermal Resistance(Note 2)	R _{θJC}	1.5							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES

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FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

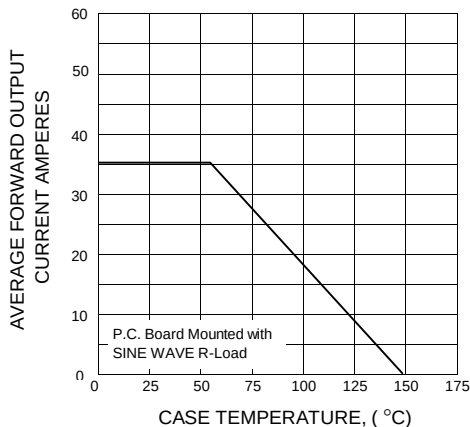


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

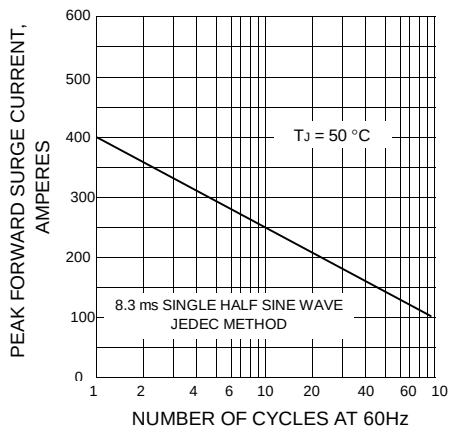


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER DIODE

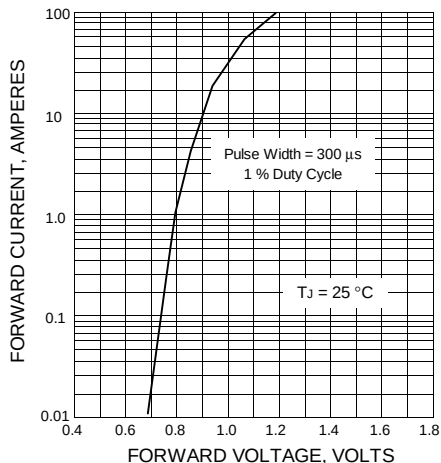


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER DIODE

