

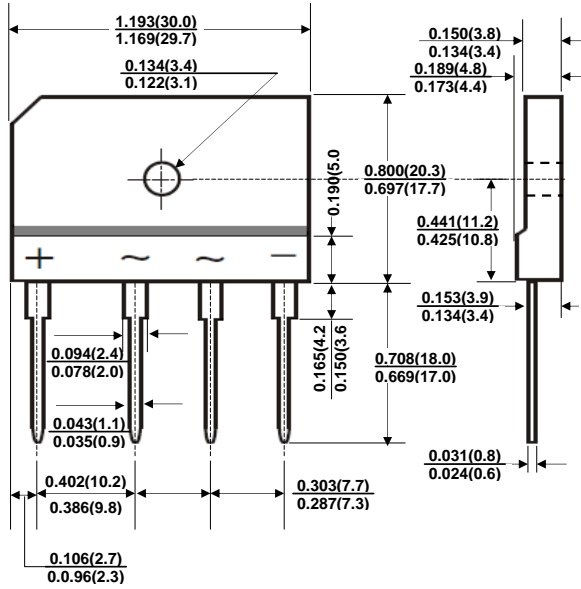


GBJ15005 THRU GBJ1510

Single Phase 15.0 AMPS. Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 15.0 Ampere

KBJ-6



Dimensions in inches and (millimeters)

FEATURES

- ◆ UL Recognized File#230084
- ◆ High surge forward current capability
- ◆ Plastic material has underwriters laboratory flammability classification 94V-0
- ◆ Mounting position: Any

MECHANICAL DATA

Case: KBJ-6(GBJ), Molded plastic

Terminals: Solderable per MIL-STD-750 Method 2026

Lead: solder plated

Polarity: As marked

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOLS	GBJ 15005	GBJ 1501	GBJ 1502	GBJ 1504	GBJ 1506	GBJ 1508	GBJ 1510	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
Minimum DC Breakdown Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current With heatsink $T_c = 100^\circ\text{C}$	$I_{F(AV)}$	15							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	220							A
Maximum Instantaneous Forward Voltage @ 7.5A	V_F	1.1							V
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ rated DC blocking voltage per leg $T_A = 125^\circ\text{C}$	I_R	5.0 500							μA
Typical Thermal Resistance (Note1)	$R_{\theta JC}$	1.5							$^\circ\text{C/W}$
I^2t Rating for fusing ($t < 8.3\text{ms}$)	I^2t	200							A^2S
Mounting Torque (Note 2)	T_{OR}	8							N·m
Dielectric Strength at Terminals to case AC 1 minute	V_{dis}	2.5							KV
Operating Temperature Range	T_J	-50 to +125							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

- Note:**
1. Between junction and case, With heatsink
 2. Recommend torque : 5kg·cm



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RATINGS AND CHARACTERISTIC CURVES

FIG. 1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

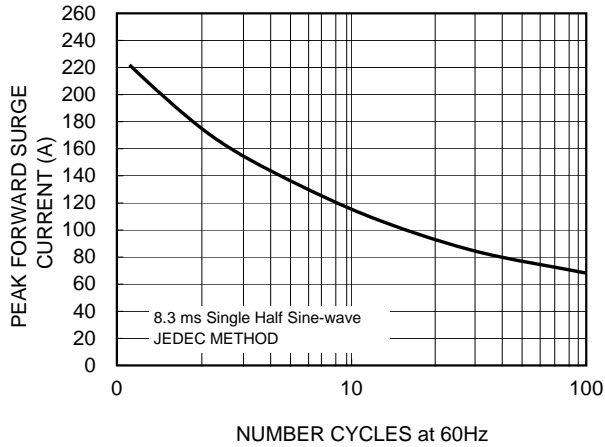


FIG. 2 MAXIMUM FORWARD CURRENT DERATING CURVE

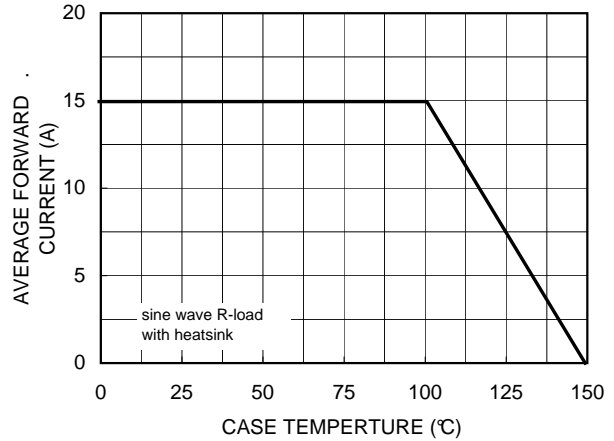


FIG. 3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

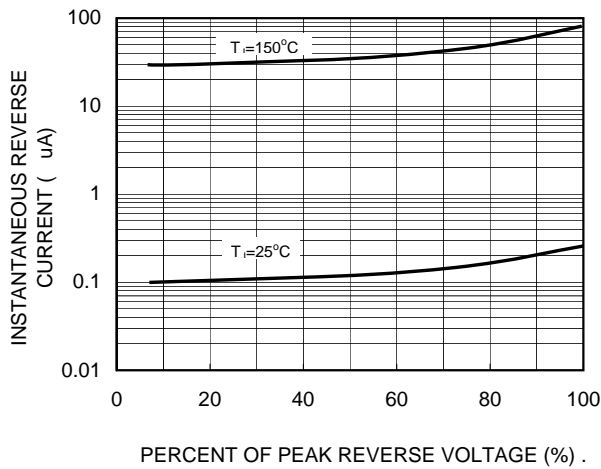


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

