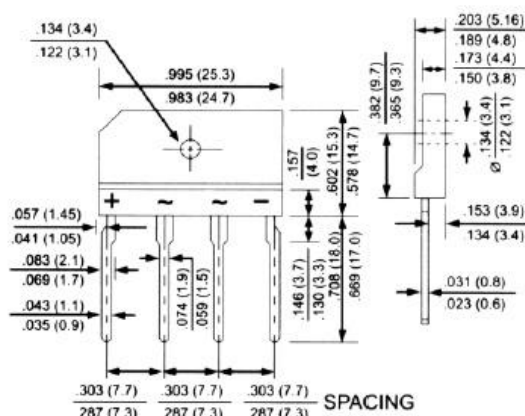
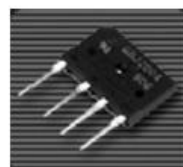


Glass Passivated Single-Phase Bridge Rectifiers
Voltage Range 50 to 1000 Volts Forward Current 4.0 Amperes

- ◆ Surge overload rating - 150 Amperes peak
- ◆ Ideal for printed circuit boards
- ◆ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Mounting Position: Any



Dimensions in inches and (millimeters)

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Parameter	Symbols	KBJ4A	KBJ4B	KBJ4D	KBJ4G	KBJ4J	KBJ4K	KBJ4M	Units
		GBJ4A	GBJ4B	GBJ4D	GBJ4G	GBJ4J	GBJ4K	GBJ4M	
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified output current @ $T_C=100^{\circ}C$ (with heatsink Note 2) (without heatsink)	I_{FAV}				4.0 2.4				Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}				150.0				Amps
Max. instantaneous forward voltage drop at 2.0A DC	V_F				1.0				Volt
Maximum DC reverse current @ $T_J=25^{\circ}C$ at rated DC blocking voltage per element @ $T_J=125^{\circ}C$	I_R				5.0 500.0				μA
Rating for fusing ($t < 8.3ms$)	Pt				93				A ² sec
Typical junction capacitance per element (Note 1)	C_j				45				pF
Typical thermal resistance (Note 2)	$R_{\theta JC}$				2.2				$^{\circ}C/W$
Operating temperature range	T_J				-55 to +150				$^{\circ}C$
Storage temperature range	T_{STG}				-55 to +150				$^{\circ}C$

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC
2. Device mounted on 50mm x 50mm x 1.6mm Cu plate heat sink

GBJ/KBJ4A thru GBJ/KBJ4M

RATINGS AND CHARACTERISTIC CURVES

($T_A = 25^\circ\text{C}$ unless otherwise noted)

FIG. 1 - FORWARD CURRENT DERATING CURVE

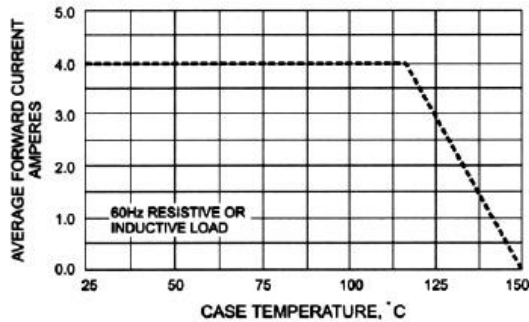


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

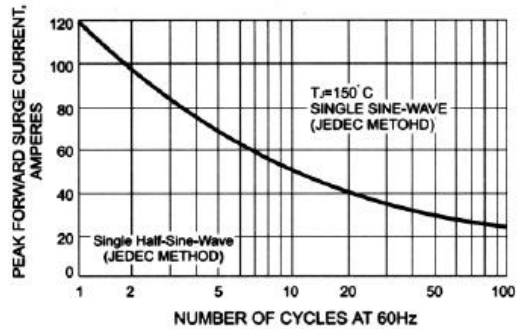


FIG. 2 - TYPICAL FORWARD CHARACTERISTICS

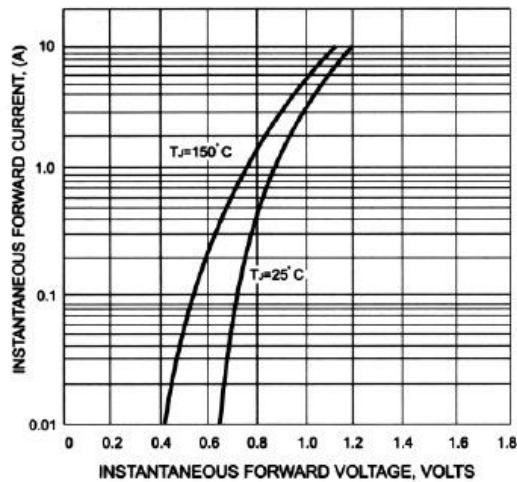


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

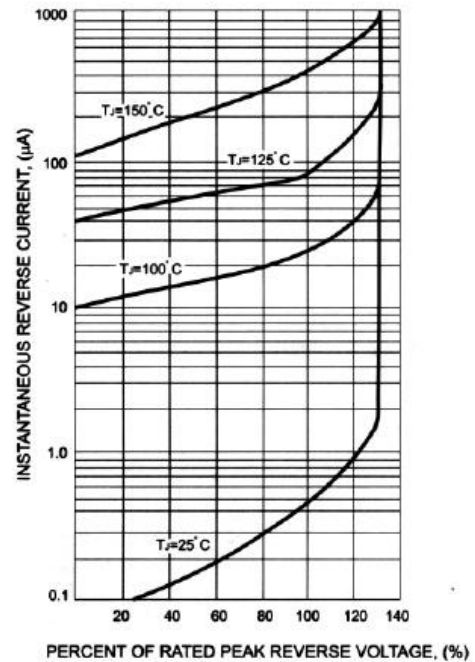


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

