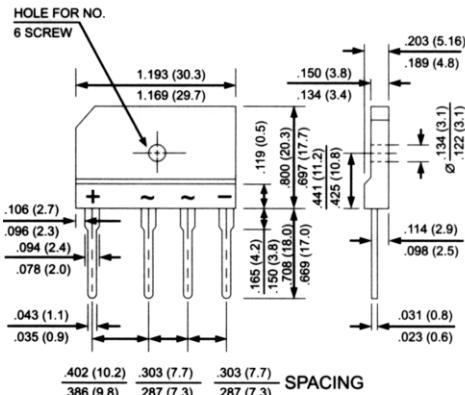


GBJ/KBJ6A thru GBJ/KBJ6M

Glass Passivated Single-Phase Bridge Rectifiers
Voltage Range 50 to 1000 Volts Forward Current 6.0 Amperes

Features

- ◆ Rating to 1000V PRV
- ◆ Ideal for printed circuit boards
- ◆ Low forward voltage drop, high current capability
- ◆ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- ◆ The plastic material has Underwriters Laboratory Flammability Classification 94V-0



Maximum Ratings and Electrical Characteristics

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	KBJ6A	KBJ6B	KBJ6D	KBJ6G	KBJ6J	KBJ6K	KBJ6M	Units
		GBJ6A	GBJ6B	GBJ6D	GBJ6G	GBJ6J	GBJ6K	GBJ6M	
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 (with heatsink Note 2) rectified output current @T _c =100°C (without heatsink)	I _{F(AV)}				6.0				Amps
					2.8				
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				170.0				Amps
Max. instantaneous forward voltage drop at 3.0A DC	V _F				1.0				Volt
Maximum DC reverse current @T _J =25°C at rated DC blocking voltage per element @T _J =125°C	I _R				5.0	500.0			uA
Rating for fusing (t<8.3ms)	Pt				120				A ² sec
Typical junction capacitance per element (Note 1)	C _J				55				pF
Typical thermal resistance (Note 2)	R _{θJC}				1.8				°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 75mm x 75mm x 1.6mm Cu plate heatsink

RATINGS AND CHARACTERISTIC CURVES

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

