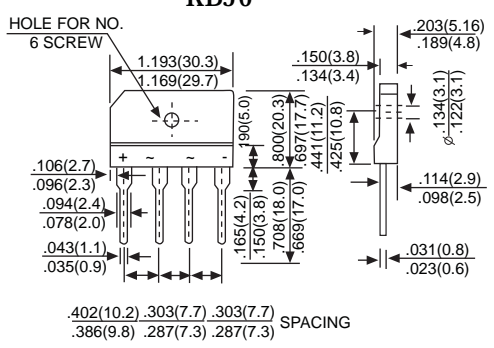
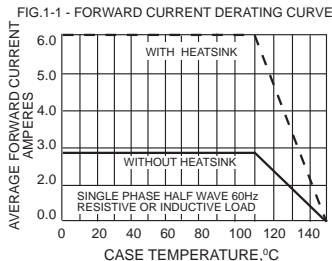


## GBJ/KBJ6A/8A/10A SERIES

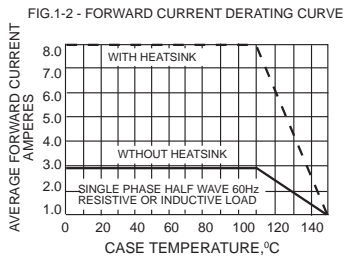
<p><b>SINGLE PHASE 6.0/8.0/10.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS</b></p>		<p><b>Voltage Range 50 to 1000 Volts</b></p> <p><b>Current 6.0/8.0/10.0 Amperes</b></p>							
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>*UL Recognized File #230084</li> <li>*Rating to 1000V PRV</li> <li>*Ideal for printed circuit board</li> <li>*Low forward voltage drop,high current capability</li> <li>*Reliable low cost construction utilizing a molded plastic technique results in inexpensive product</li> <li>*The plastic material has UL flammability classification 94V-0</li> </ul>		<p><b>KBJ6</b></p>  <p>Dimensions in inches and (millimeters)</p>							
<p><b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b></p> <p>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%</p>									
<b>Type Number</b>		GBJ/KBJ 6/8/10 005	GBJ/KBJ 6/8/10 01	GBJ/KBJ 6/8/10 02	GBJ/KBJ 6/8/10 04	GBJ/KBJ 6/8/10 06	GBJ/KBJ 6/8/10 08	GBJ/KBJ 6/8/10 10	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current@T <sub>c</sub> = 100°C (without heatsink)	I <sub>F(AV)</sub>	6.0/8.0/10.0 2.8/2.9/3.0							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I <sub>FSM</sub>	170							A
Maximum Instantaneous Forward Voltage Drop Per leg @ 3.0A/4.0A/5.0A	V <sub>F</sub>	1.0/1.0/1.05							V
Maximum DC Reverse Current at Rated DC Blocking Voltage T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C	I <sub>R</sub>	5.0 500							µA
I <sup>2</sup> t Rating for fusing (t<8.3ms)	I <sup>2</sup> t	120							A <sup>2</sup> S
Typical Junction Capacitance per Leg (Note 1)	C <sub>J</sub>	55							pF
Typical Thermal Resistance (Note 2)	R <sub>JC</sub>	1.8/1.6/1.4							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C
<p>NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0 V DC. 2. GBJ/KBJ6005 Thru GBJ/KBJ610: Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink. GBJ/KBJ8005 Thru GBJ/KBJ810: Device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink. GBJ/KBJ10005 Thru GBJ/KBJ1010: Device mounted on 150mm x 150mm x 1.6mm Cu Plate Heatsink.</p>									

## RATING AND CHARACTERISTIC CURVES GBJ/KBJ6A/8A/10A SERIES

GBJ/KBJ6A thru GBJ/KBJ6M



GBJ/KBJ8A thru GBJ/KBJ8M



GBJ/KBJ10A thru GBJ/KBJ10M

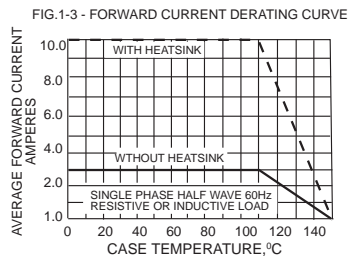


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

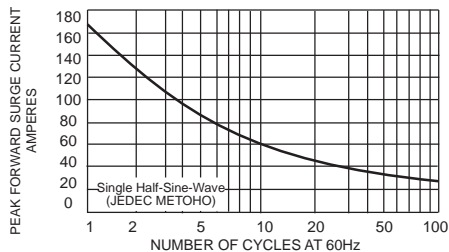


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

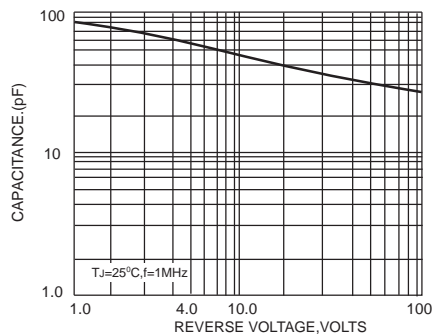


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

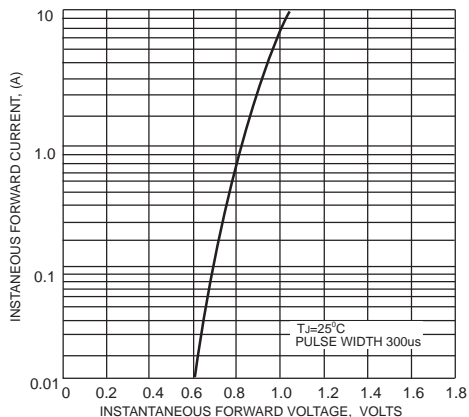


FIG.5-TYPICAL REVERSE CHARACTERISTICS

