GBJ/KBJ6A/8A/10A SERIES

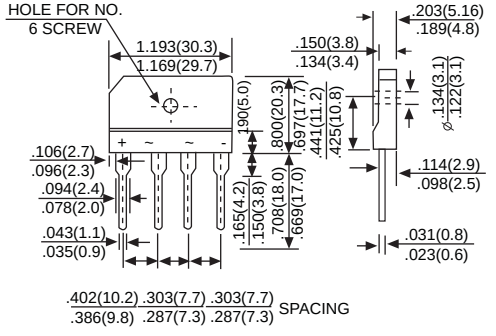
SINGLE PHASE 6.0/8.0/10.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range
50 to 1000 Volts
Current
6.0/8.0/10.0 Amperes

FEATURES

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

KBJ6



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

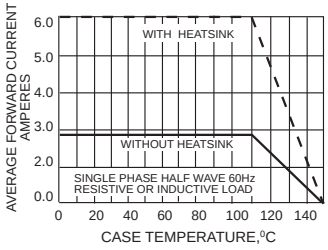
Type Number		GBJKBJ 6/8/10 005	GBJKBJ 6/8/10 01	GBJKBJ 6/8/10 02	GBJKBJ 6/8/10 04	GBJKBJ 6/8/10 06	GBJKBJ 6/8/10 08	GBJKBJ 6/8/10 10	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	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)	$I_{F(AV)}$	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_{FSM}	170							A
Maximum Instantaneous Forward Voltage Drop Per leg @ 3.0A/4.0A/5.0A	V_F	1.0/1.0/1.05							V
Maximun DC Reverse Current T_J = 25°C at Rated DC Blocking Voltage T_J = 125°C	I_R	5.0 500							uA
I^2t Rating for fusing (t<8.3ms)	I^2t	120							A^2S
Typical Junction Capacitance per Leg (Note 1)	C_J	55							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	1.8/1.6/1.4							°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 4.0 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.

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

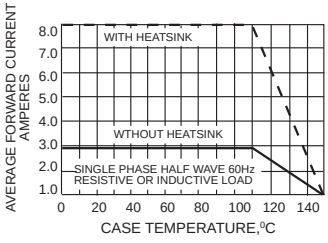
GBJ/KBJ6A thru GBJ/KBJ6M

FIG.1-1 - FORWARD CURRENT DERATING CURVE



GBJ/KBJ8A thru GBJ/KBJ8M

FIG.1-2 - FORWARD CURRENT DERATING CURVE



GBJ/KBJ10A thru GBJ/KBJ10M

FIG.1-3 - FORWARD CURRENT DERATING CURVE

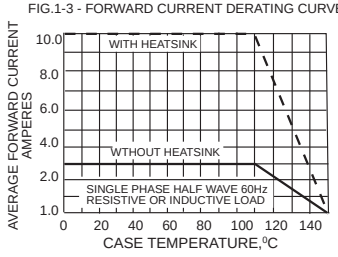


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

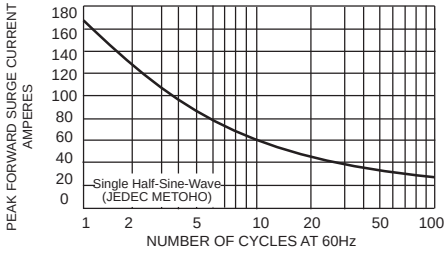


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

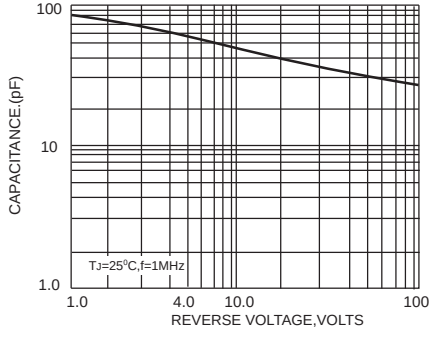


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

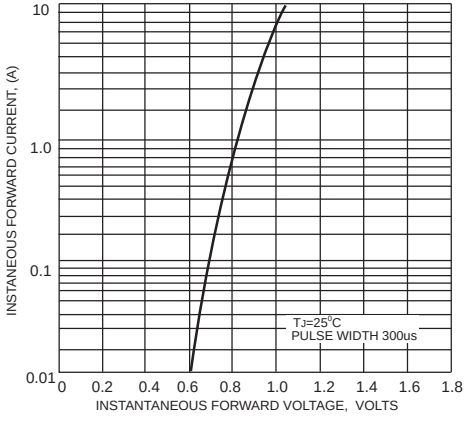


FIG.5-TYPICAL REVERSE CHARACTERISTICS