



SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIER

GBL005 THRU GBL10

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

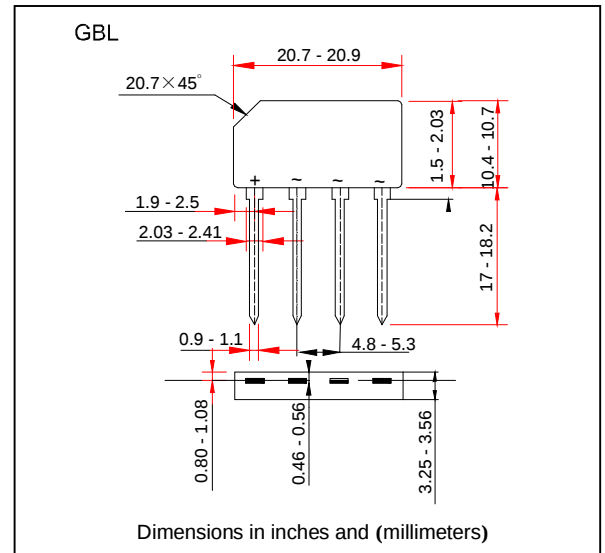
4.0 Amperes

FEATURES

- Plastic package has UL flammability Classification 94V-0
- Glass passivated chip junctions
- High case dielectric strength
- High surge current capability
- High temperature soldering guaranteed:
260°C/10 seconds, 0.375"(9.5mm) lead length

MECHANICAL DATA

- Case: molded plastic body
- Terminal: Plated leads solderable per MIL-STD-750 Method 2026
- Mounting position: Any
- Weight: 0.15 ounce, 4.0 gram



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 derate current by 20%

		SYMBOLS	GBL 005	GBL 01	GBL 02	GBL 04	GBL 06	GBL 08	GBL 10	UNIT
Maximum Reverse Peak Repetitive 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 Current, At T _C =50℃ (Note 1) T _A =40℃ (Note 2)		I _(AV)	4.0 3.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)		I _{FSM}	150							Amps
Rating for Fusing (t<8.3ms)		I ² t	93.0							A ² s
Maximum Instantaneous Forward Voltage drop Per Bridge element 4.0A		V _F	1.0							Volts
Maximum Reverse Current at rated DC blocking voltage per element	T _A =25℃	I _R	5.0							μ A
	T _A =125℃		500							
Typical Junction Capacitance per leg (Note 3)		C _J	95.0				40.0			pF
Typical Thermal Resistance (Note 1) (Note 2)		R _{JA} R _{JC}	22.0 3.5							℃/W
Operating Junction Temperature Range		T _J ,	(-55 to +150)							℃
Storage Temperature Range		T _{STG}	(-55 to +150)							℃

- Notes:**
- Unit mounted on 3.0×3.0×0.11" thick (7.5×7.5×0.3cm) A1. plate
 - Unit mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5×0.5"(12×12mm) copper pads
 - Measured at 1.0MHz and applied reverse voltage of 4.0 V



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RATINGS AND CHARACTERISTIC CURVES 2KBP005G THRU 2KBP10G

FIG. 1- DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

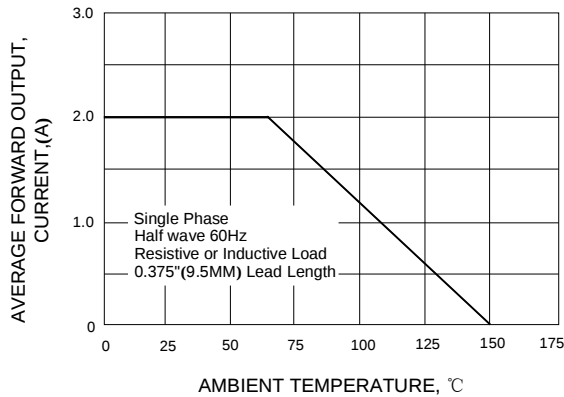


FIG. 2- MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER ELEMENT

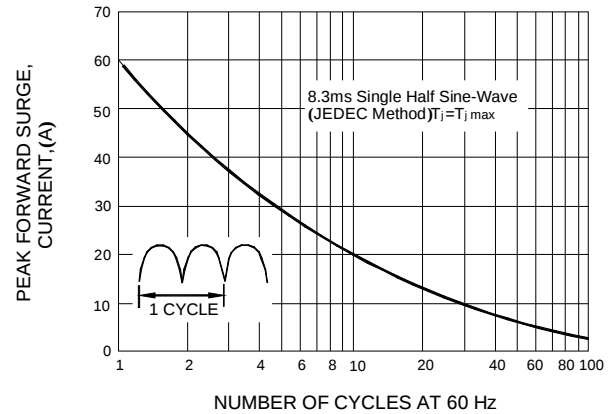


FIG. 3- TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT

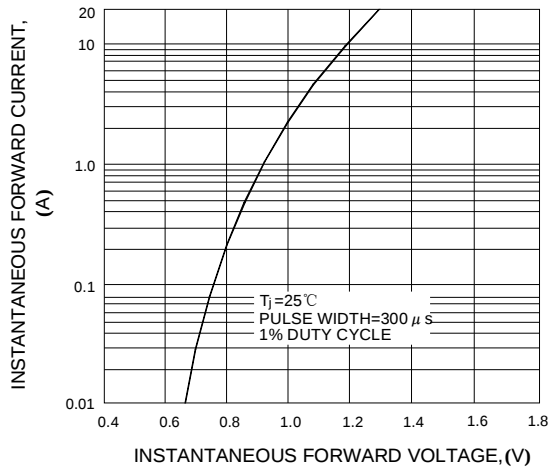


FIG. 4- TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT

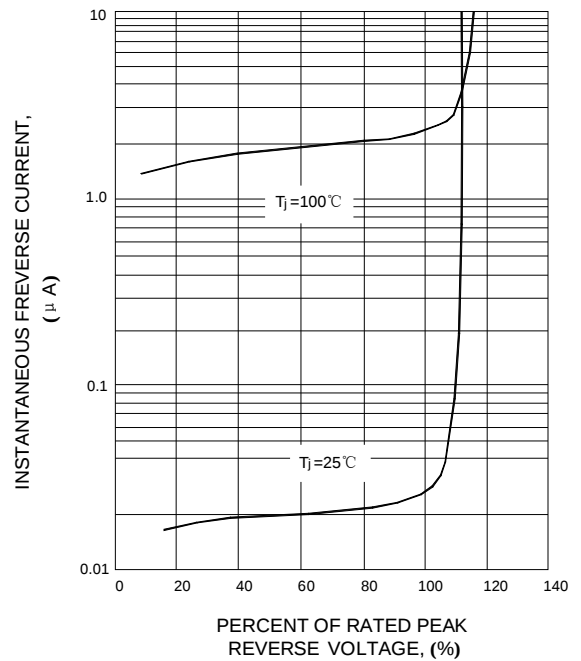


FIG. 5- TYPICAL JUNCTION CAPACITANCE
PER BRIDGE ELEMENT

