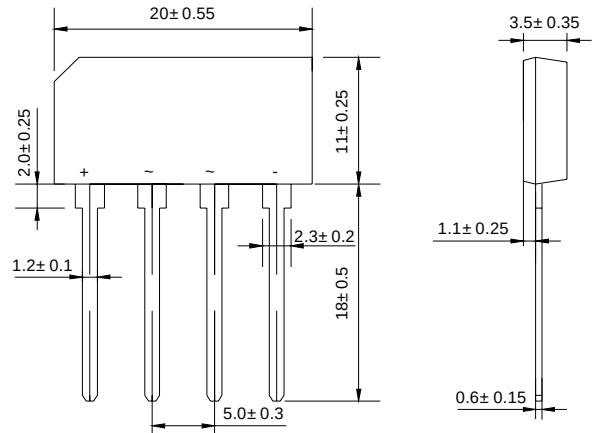




VOLTAGE RANGE: 50 --- 1000 V

CURRENT: 4.0 A

KBJ2



Dimensions in millimeters

Features

- ◇ Ideal for printed circuit board
- ◇ Reliable low cost construction utilizing molded plastic technique
- ◇ Plastic material has U/L flammability classification 94V-O
- ◇ Mounting position: Any
- ◇ Glass passivated chip junctions

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

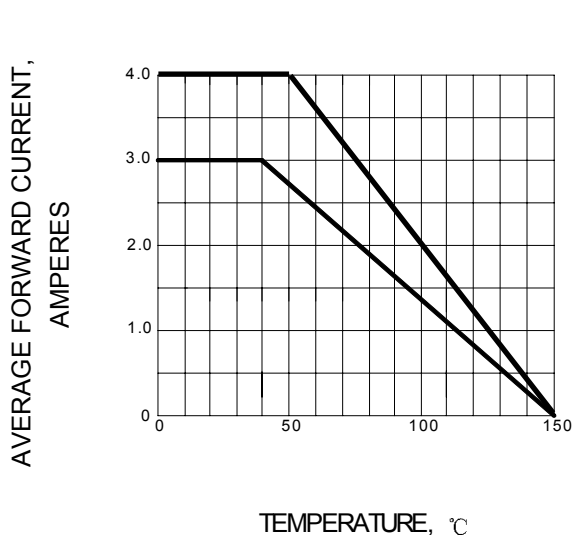
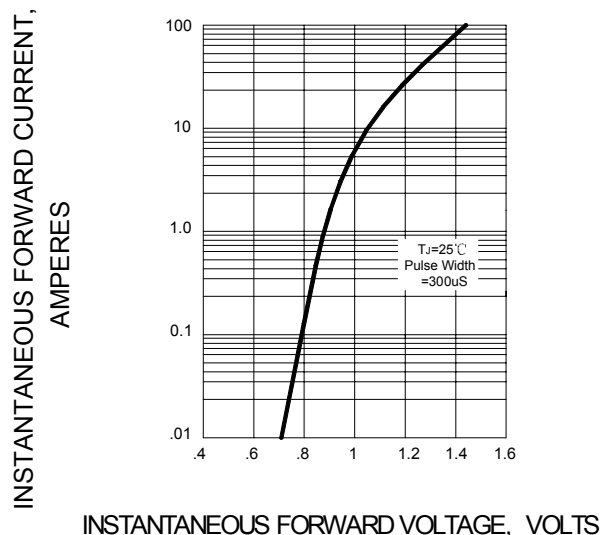
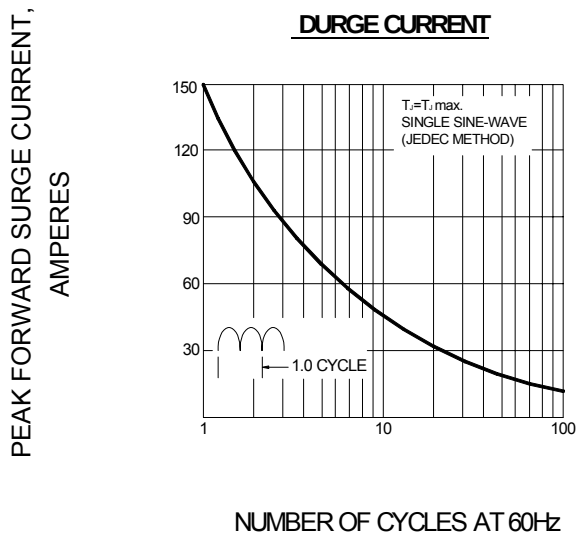
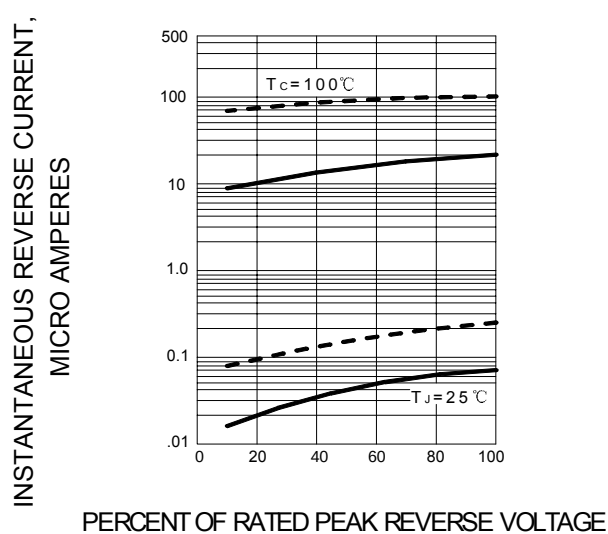
		GBL 4005	GBL 401	GBL 402	GBL 404	GBL 406	GBL 408	GBL 410	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forw ard Tc=50℃ output current @Tj=40℃	IF(AV)	4.0 3.0							A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load	IFSM	150.0							A
Maximum instantaneous forw ard voltage at 2.0 A	VF	1.0							V
Maximum reverse current @TA=25℃ at rated DC blocking voltage @TC=100℃	IR	5.0 500.0							μA
Typical junction capacitance per leg (note 1)	CJ	65				25			pF
Typical thermal resistance per leg (note 2) (note 3)	RθJL RθJL	34 15							℃/W
Operating junction temperature range	TJ	- 55 ---- + 150							℃
Storage temperature range	TSTG	- 55 ---- + 150							℃

NOTE: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

2. Units mounted on P.C.B. with 0.5x0.5" (12x12mm) copper pads and 0.375" (9.5mm) lead length.

3. Unit case mounted on 3.0x3.0x0.11" thick (7.5x7.5x0.3cm) Al. Plate.

Ratings AND Characteristic Curves

FIG.1 – DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

FIG.3 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

FIG.4 – TYPICAL REVERSE CHARACTERISTIC

FIG.5 – TYPICAL JUNCTION CAPACITANCE PER LEG
