

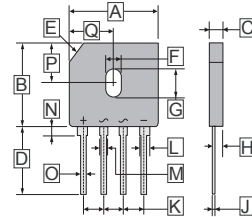
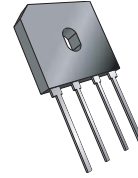
RoHS Compliant Product

A suffix of "-C" specifies halogen-free and RoHS Compliant

**FEATURES**

- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under the Recognized Component index, file number E231047
- Single-in-line package
- High current capacity with small package
- Superior thermal conductivity
- High temperature soldering guaranteed : 260°C / 10 seconds
- High IFSM

**GBU**



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	21.80	22.20	J	0.46	0.56
B	18.30	19.10	K	4.80	5.30
C	3.37	3.53	L	2.16	2.54
D	17.27	18.29	M	1.65	2.03
E	3.2 x 45°		N	1.45	1.85
F	3.70	3.90	O	0.90	1.20
G	5.70	5.90	P	9.80	10.20
H	2.30	2.70	Q	10.90	11.10

**MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise noted)**

PARAMETERS	SYMBOL	PART NUMBERS							UNITS
		GBU 8A	GBU 8B	GBU 8D	GBU 8G	GBU 8J	GBU 8K	GBU 8M	
Maximum repetitive voltage	V <sub>RM</sub>	50	100	200	400	600	800	1000	V
Maximum DC reverse current at @T <sub>A</sub> =25°C	I <sub>R</sub>	5							μA
rated DC blocking voltage @T <sub>A</sub> =125°C		500							
Average rectified forward current 60Hz Sine wave Resistance load with heatsink @T <sub>C</sub> =100°C <sup>(1)(2)</sup>	I <sub>O</sub>	8							A
Peak Forward Surge Current, 10.0ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	200							A
Dielectric strength terminals to case, AC 1 minute Current 1mA	V <sub>dia</sub>	2.5							KV
Typical thermal resistance per leg <sup>(3)</sup>	R <sub>θJA</sub>	21							°C / W
	R <sub>θJC</sub>	2.2							
Maximum instantaneous forward voltage at 4A	V <sub>F</sub>	1							V
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	150, -55 ~ 150							°C

Notes :

- (1) Unit case mounted on Al plate heat-sink
- (2) Unites mounted on P.C.B without heat-sink
- (3) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with heat-sink size : 8.2 \* 8.2 \* 03cm

**CHARACTERISTIC CURVES**

Fig. 1 derating Curve

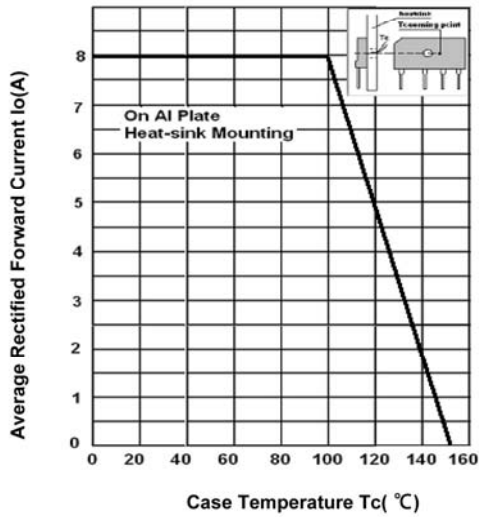


Fig.3 Peak Surge Forward capability

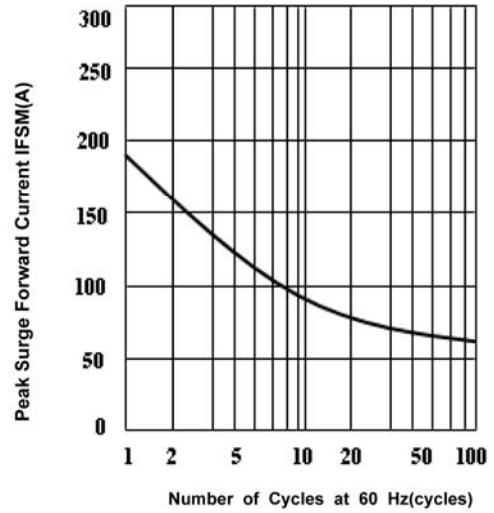


Fig.2 Typical Reverse Characteristics

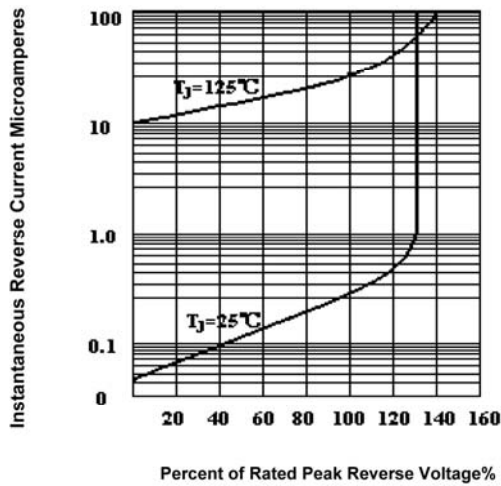


Fig.4 Forward Voltage

