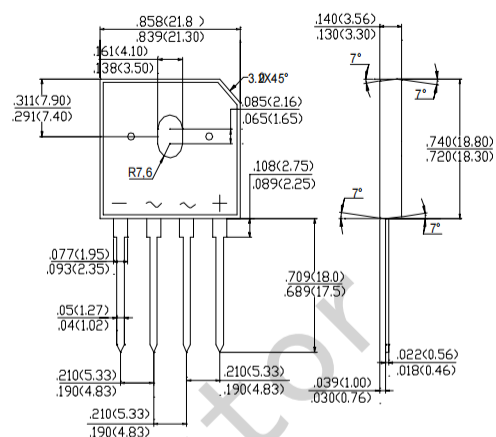


FEATURES

- ◆ Surge overload rating-250 amperes peak
- ◆ Polarity:As marked on body
- ◆ Ideal for printed circuit board
- ◆ Plastic material has U/LThe flammability classification 94V-0

MECHANICAL DATA

- ◆ Case:GBU
- ◆ Terminals:Solder able per MIL-STD-202,Method208
- ◆ Approx.Weight:3.9g/0.138oz



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 current derate by 20 %.

Parameter		Symbols	GBU1040SF	GBU1060SF	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	400	600	V
Maximum RMS voltage		V_{RMS}	280	420	V
Maximum DC Blocking Voltage		V_{DC}	400	600	V
Maximum Average Forward $T_C=100^{\circ}C$ (Note 1) Rectified Current at		$I_{(AV)}$	10.0	10.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)		I_{FSM}	250	250	A
Forward Voltage per element @ $I_F = 10A$ DC		V_F	1.35	1.8	V
Maximum Reverse Recovery Time		T_{rr}	40	40	nS
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ $T_a=25^{\circ}C$	I_R	5	5	μA
	@ $T_a=125^{\circ}C$		500		
I2t Rating for Fusing($3ms \leq t \leq 8.3ms$)		I^2t	300		A ² S
Typical Junction Capacitance (Note1)		C_j	50		pF
Operating and Storage Temperature Range		T_j, T_{stg}	-55 ~ +175		°C

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) Device mounted on 150mm*150mm*16mm cu plate heatsink

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

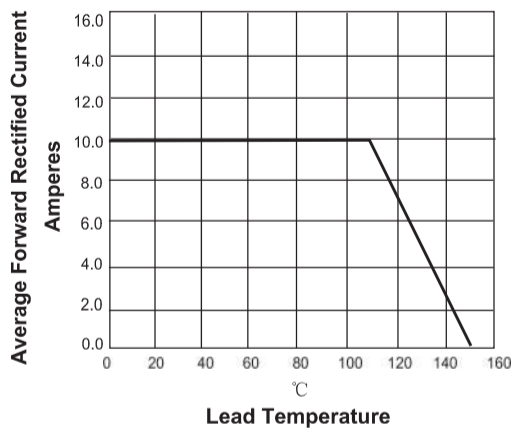


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

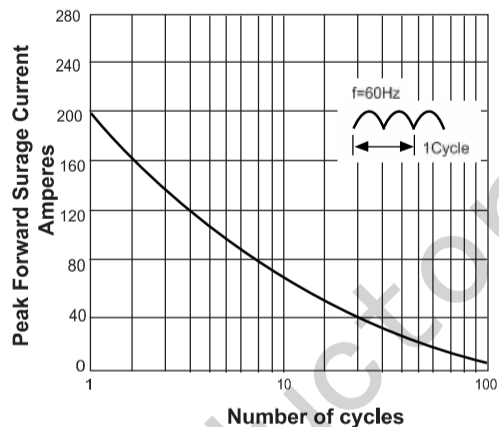


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

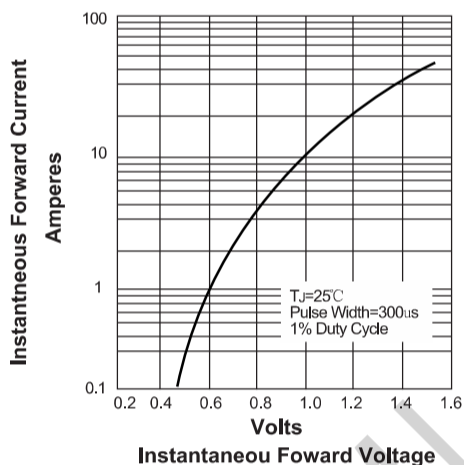


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

