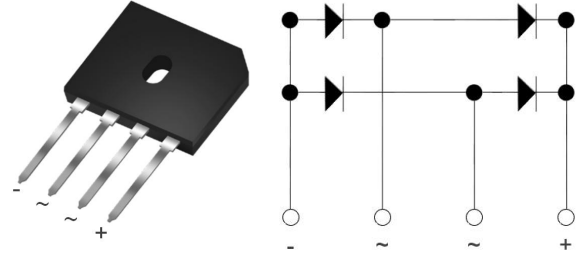


Features

- ◆ Glass Passivated Chip
- ◆ High Surge Current Capability
- ◆ Low Reverse Leakage Current
- ◆ Case to Terminal Isolation Voltage 2500V

Application

- ◆ Switching Mode Power Supply
- ◆ Home Appliances
- ◆ Office Devices
- ◆ Industrial Auto-equipments



Mechanical Data

- ◆ Case: Plastic Package
- ◆ Marking / Polarity: Marked on Body
- ◆ Weight: About 3.85 Grams

Maximum Ratings and Thermal Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Rating	Unit
V_{RRM}	Recurrent Peak Reverse Voltage	600	V
$I_{F(AV)}$	Average Forward Output Rectified Current, $T_A = 120^\circ\text{C}$	8.0	A
V_F	Forward Voltage Per Leg, $I_{FM} = 8.0\text{A}$	1.65	V
I_{FSM}	Peak Forward Surge Current Single Half Sine-wave Superimposed on Rated Load	150	A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$	μA
		$T_A = 125^\circ\text{C}$	
T_{rr}	Maximum Reverse Recovery Time	50	ns
i^2t	Rating for Fusing ($t < 8.3\text{ms}$)	93	A^2S
V_{isol}	Rms Isolation Voltage from Case to Leads	2500	V
C_J	Typical Junction Capacitance	50	pF
$R_{\theta JC}$	Maximum Thermal Resistance	2.0	$^\circ\text{C}/\text{W}$
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to 150	$^\circ\text{C}$

Notes:

- a. Junction to case with heatsink.
- b. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw.

■ **Characteristic Curve**

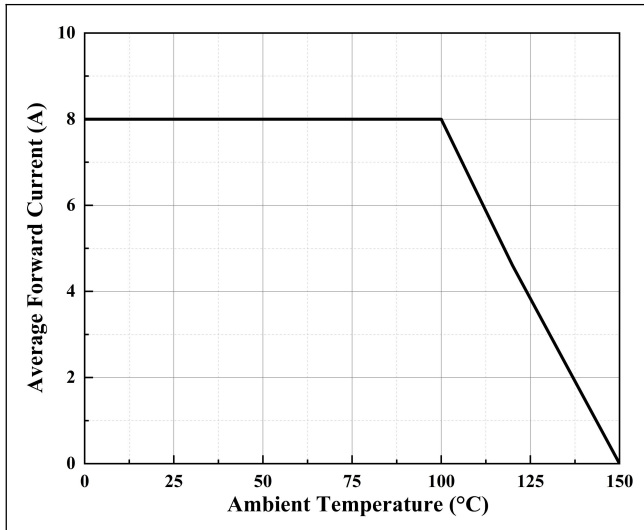


Figure 1. Forward Current Derating Curve

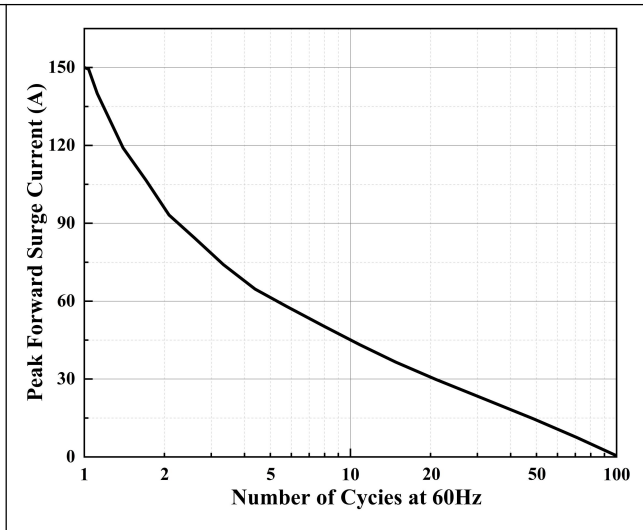


Figure 2. Maximum Non-Repetitive Surge Current

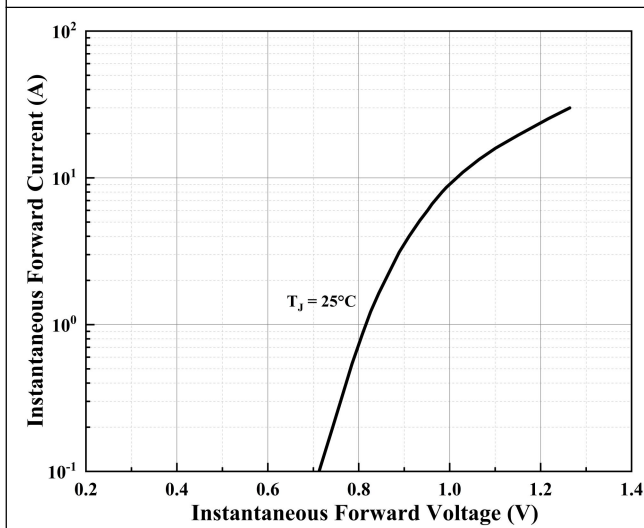


Figure 3. Typical Forward Characteristics Per Diode

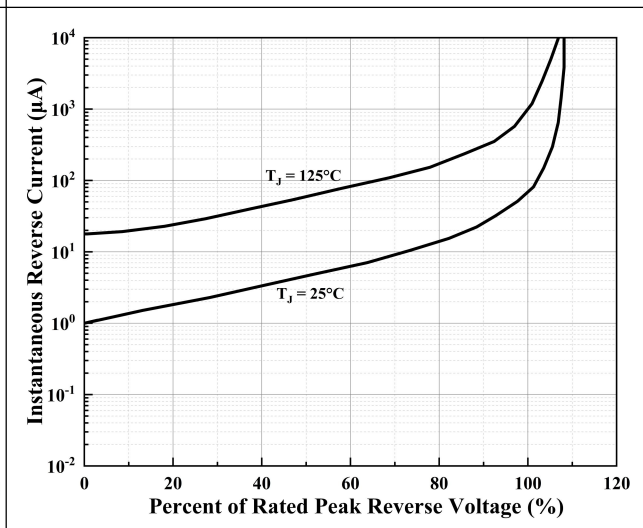
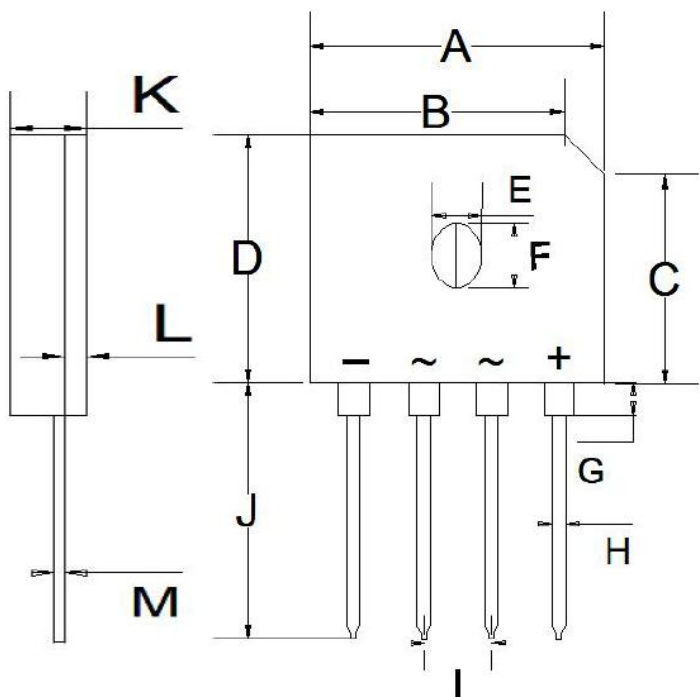


Figure 4. Typical Reverse Leakage Characteristics Per Diode

■ Package Information

Case: GBU Series Dimensions in millimeters	序号	Min(mm)	MAX(mm)
	A	21.8	22.3
	B	18.8	19.4
	C	15.2	15.7
	D	18.2	18.7
	E	3.4	3.8
	F	5.4	5.8
	G	2.3	2.7
	H	0.98	1.15
	I	4.8	5.2
	J	17.8	18.4
	K	3.35	3.6
	L	0.95	1.05
	M	0.4	0.6