

RoHS Compliant Product

FEATURES

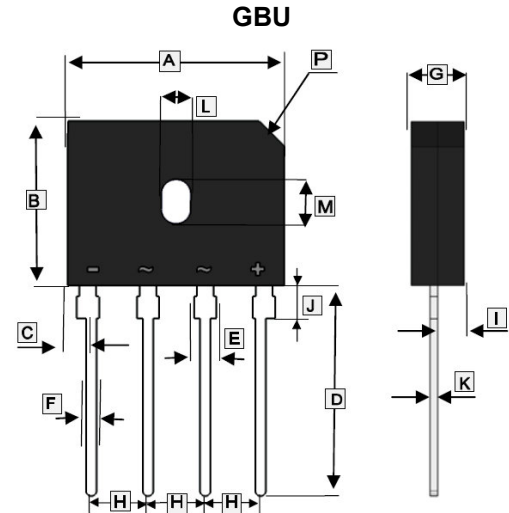
- Glass Passivated Chip
- High Surge Forward Current Capability
- Ideal for Printed Circuit Board
- Low Forward Voltage Drop
- Molding Compound Meets UL 94 V-0 flammability Rating, RoHS-Compliant

APPLICATIONS

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

ORDER INFORMATION

Part Number	Type
GBU1506L	Lead (Pb)-free
GBU1506L-H	Lead (Pb)-free and Halogen-free



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	21.7	22.3	H	4.8	5.33
B	18.2	19.1	I	1.8	2.66
C	3.4 REF.		J	1.8	2.54
D	17.27	18.5	K	0.4	0.6
E	1.8	2.54	L	3.5	4.1
F	0.9	1.3	M	5.7 TYP.	
G	3.3	3.8	P	3°45' TYP.	

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C Unless otherwise specified)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	600	V
Maximum Average Forward Rectified Current @60HZ Sine Wave, R-load, T _C =90°C ¹	I _F	with heatsink	15
		without heatsink	3.3
Peak Forward Surge Current @60Hz Half Sine Wave, (JEDEC Method)	I _{FSM}	300	A
Current Squared Time t _s ≤8.3ms	I ² t	200	A ² s
Maximum Instantaneous Forward Voltage Drop Per Diode	V _F	I _F =7.5A	0.93
		I _F =15A	1.0
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	T _J =25°C	5
		T _J =125°C	500
Mounting Torque (Recommend Torque: 5Kg·cm)	Tor	8	Kg·cm
Dielectric Strength	V _{dis}	2.5	kV
Typical Junction Capacitance Per Element ²	C _J	75	pF
Typical Thermal Resistance	R _{θJC}	8.7	°C/W
Operating and Storage temperature range	T _J , T _{STG}	-55~150	°C

Notes:

1. Mounted on aluminum plate heatsink.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 Output Current Derating Curve

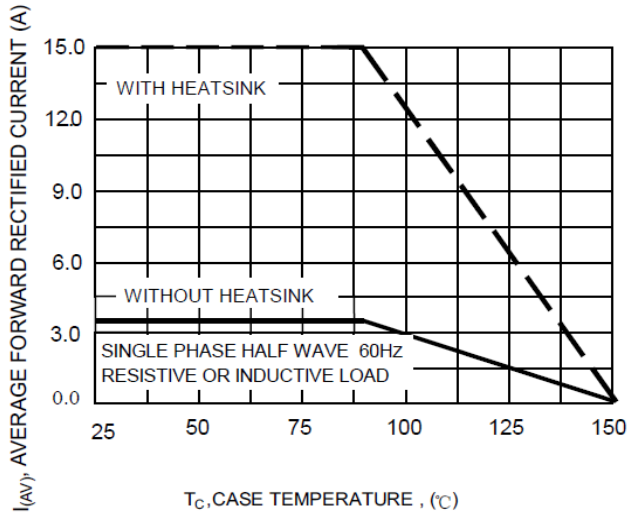


Fig. 2 Typical Forward Characteristics

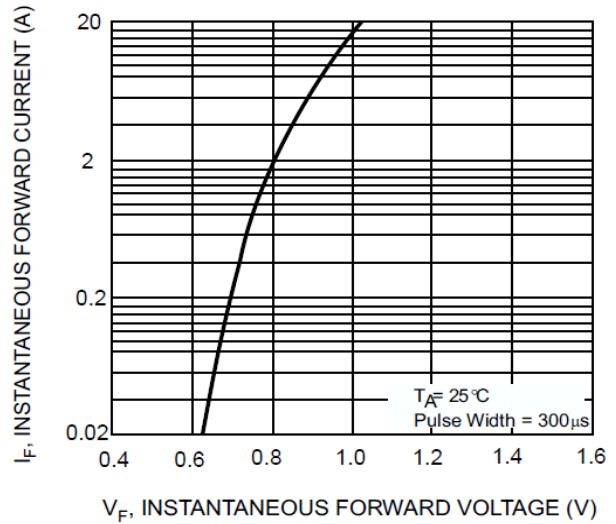


Fig. 3 Maximum Peak Forward Surge Current

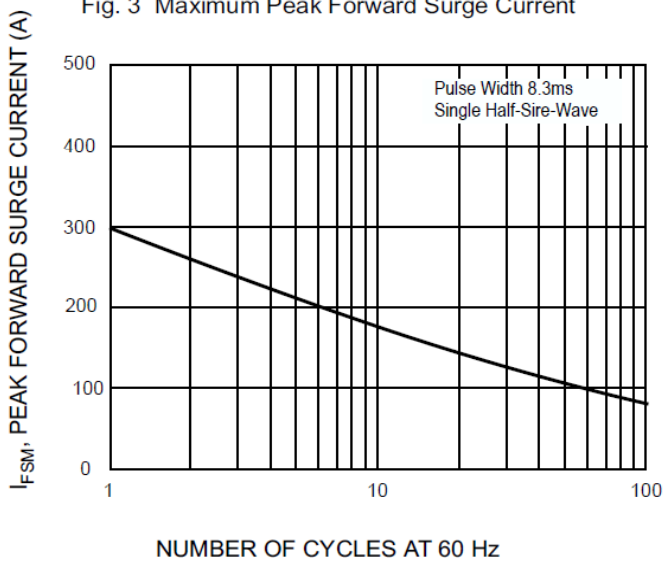


Fig. 4 Typical Junction Capacitance

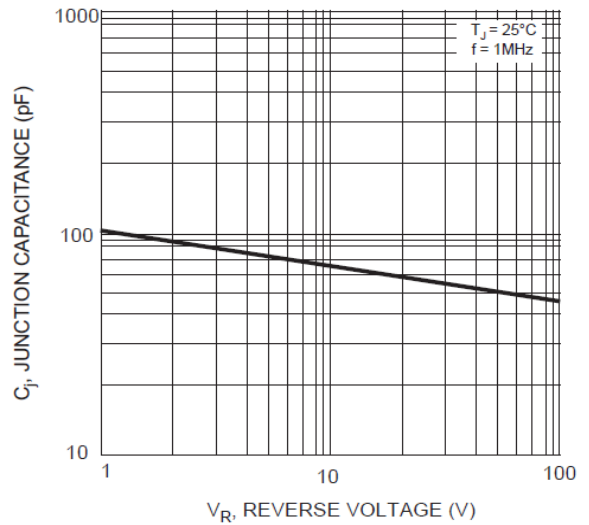


Fig. 5 Typical Reverse Characteristics

