GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Features

- Glass passivated chip junction
- Plastic package has underwriters laboratory
- Flammability classification 90V-0
- Integrally molded heatsink provide very low thermal resistance
- High isolation voltage from case to leads
- High forward surge current capability
- High temperature soldering guaranteed:
  260℃/10 seconds, 0.375"(9.5mm) lead length at 5lbs (2.3kg)tension

Mechanical Data

Case:	Molded Plastic body
Polarity	Polarity symbols marked on case
Terminals:	Plate 0.060" (1.02mm) diameter
Mounting torque	/
Mounting position:	Thru hole for #10 screw, 20 in-lbs torque max
Weight:	1.02 ounce, 29 gram

Maximum Ratings *($T_{Ambient}$=25ºC unless noted otherwise)*

Symbol	Description	GBPC1502W	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	200	**V**	
VRMS	Max RMS Voltage	140	**V**	
VDC	Max DC Blocking Voltage	200	**V**	
I(AV)	Max Average Forward Rectified Current	15.0	**A**	At TC= 55℃ (note1,2)
IFSM	Peak Forward Surge Current	300	**A**	8.3ms single half sine-wave (JEDEC method)
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150	**℃**	
I2t	Rating for Fusing	37	**A2s**	T<8.3mS

Electrical Characteristics *($T_{Ambient}$=25ºC unless noted otherwise)*

Symbol	Description	GBPC1502W	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.1	**V**	Drop per Bridge element 7.5A
IR	Max DC Reverse Current at Rated DC Blocking Voltage	10.0	**μA**	TA=25℃
		100		Tc=100℃
VISO	Isolation voltage from case to lead	2500	**pF**	
RJI	Typical Thermal Resistance	2.0	**℃/W**	Note 1 and Note 2

Note:

1. Bolt down on heatsink with silicon thermal compound between bridge and mounting surface for maximum heat transfer with #10 screw.
2. Unit mounted on 5.0" x 4.0" x 3.0" think (12.8 x 10.2 x 7.3cm) Al Plate

GBPC1502W

RATINGS AND CHARACTERISTIC CURVES GBPC1502W

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

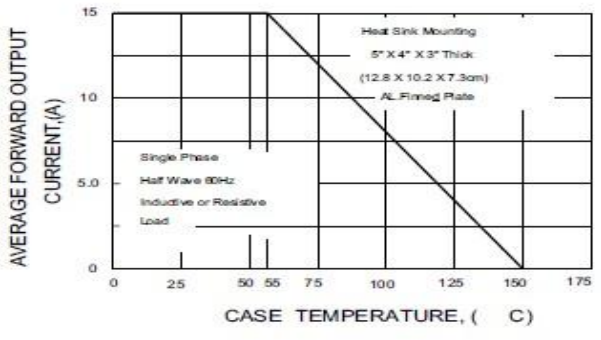


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER ELEMENT

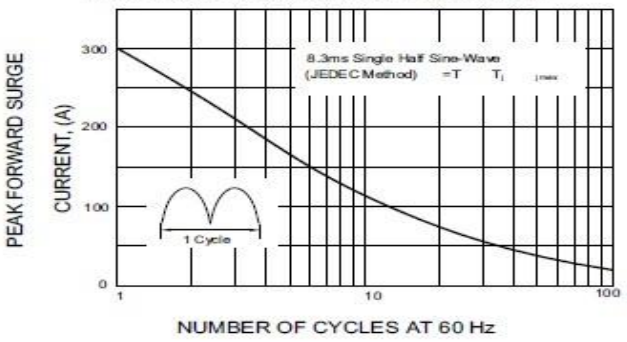


FIG.3-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

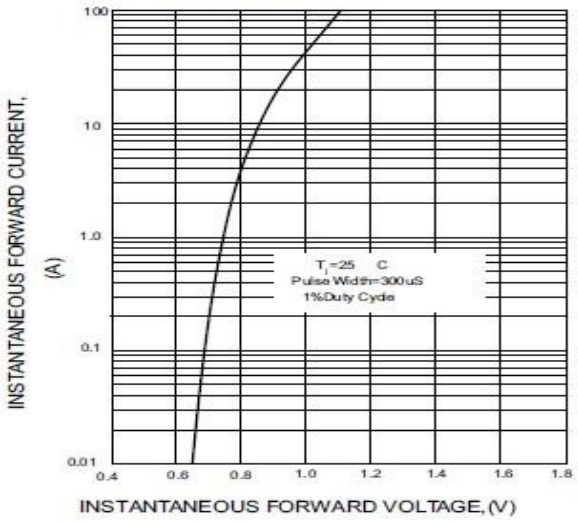


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

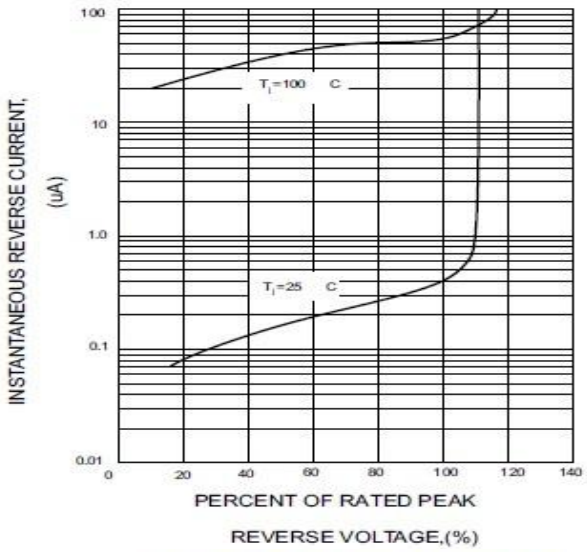


FIG.5-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

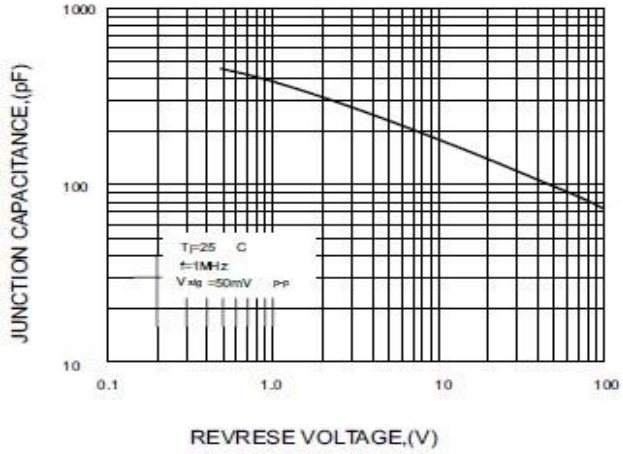
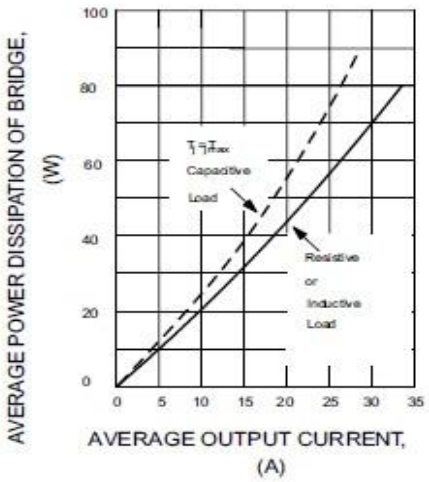
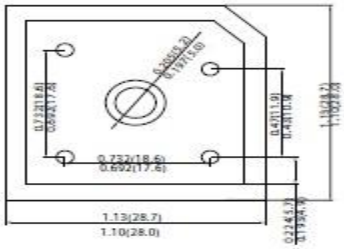


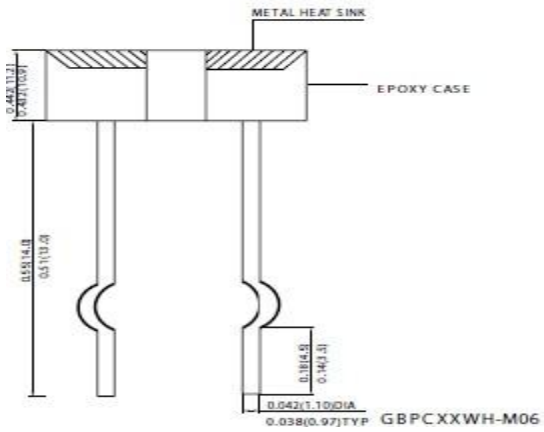
FIG.6-MAXIMUM POWER DISSIPATION



GBPC1502W

Dimensions in inches (mm)





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