



# DATA SHEET

## GBPC3500W~GBPC3508W

### HIGH CURRENT GLASS PASSIVATED BRIDGE RECTIFIER

**VOLTAGE** 50 to 800 Volts **CURRENT** 35 Amperes

GBPC-W

Unit:inch(mm)



Recognized File # E111753

#### FEATURES

- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- The plastic package has Underwriters Laboratory Flammability Classification 94V-O.
- Both normal and Pb free product are available :  
Normal : 80~95% Sn, 5~20% Pb  
Pb free: 98.5% Sn above

#### MECHANICALDATA

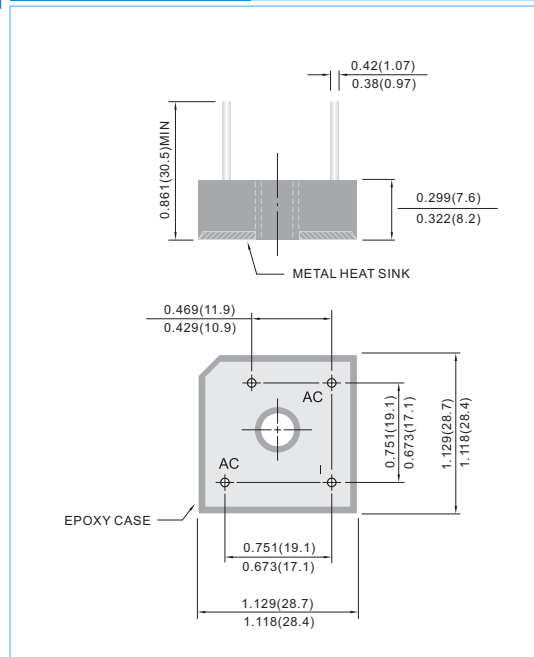
Case:Molded plastic with heatsink integrally mounted in the bridge encapsulation.

Mounting position: Any

Weight: 1 ounce, 30 grams

“ W” Suffix Designates Wire Leads

All Models are Available on B(Height)=7.62mm Max. Epoxy Case



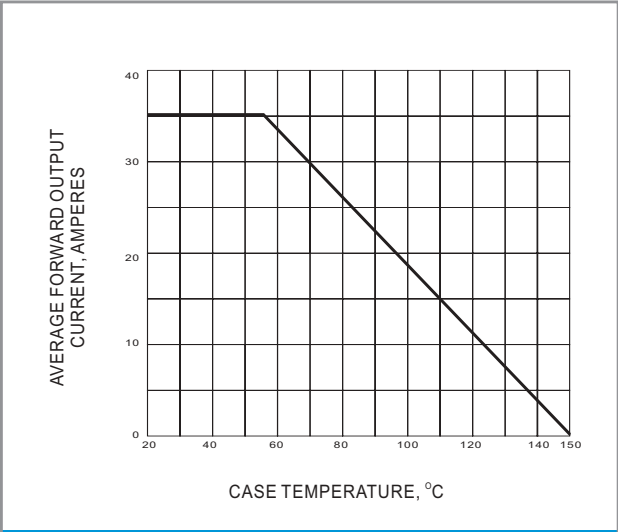
#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.  
For Capacitive load derate current by 20%.

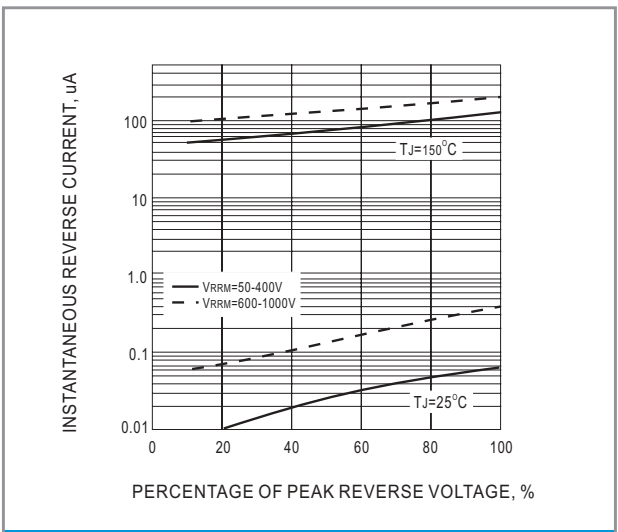
PARAMETER	SYMBOL	GBPC 35005W	GBPC 3501W	GBPC 3502W	GBPC 3504W	GBPC 3506W	GBPC 3508W	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	V
Maximum Average Forward Current For Resistive Load at T <sub>C</sub> =55°C	I <sub>AV</sub>	35						A
Non-repetitive Peak Forward Surge Current at Rated Load	I <sub>FSM</sub>	400						A
Maximum Forward Voltage per Bridge Element at 17.5A Specified Current	V <sub>F</sub>	1.2						V
Maximum Reverse Leakage Current at Rated @ T <sub>A</sub> =25°C Dc Blocking Voltage @ T <sub>A</sub> =100°C	I <sub>R</sub>	10.0 1000						uA
I <sup>2</sup> t Rating for fusing ( t < 8.35ms)	I <sup>2</sup> t	660						A <sup>2</sup> t
Typical Thermal Resistance per leg	R <sub>θJC</sub>	3.0						°C/W
Operating Junction and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to + 150						°C



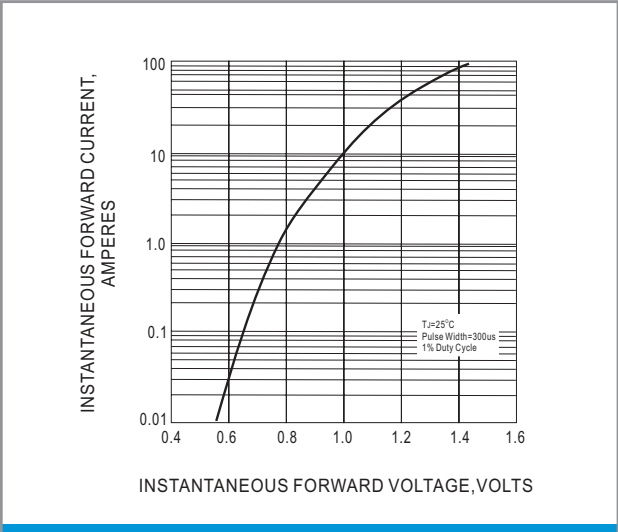
**RATING AND CHARACTERISTIC CURVES**



**Fig.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**Fig.2 TYPICAL REVERSE CHARACTERISTICS**



**Fig.3 TYPICAL FORWARD CHARACTERISTIC**