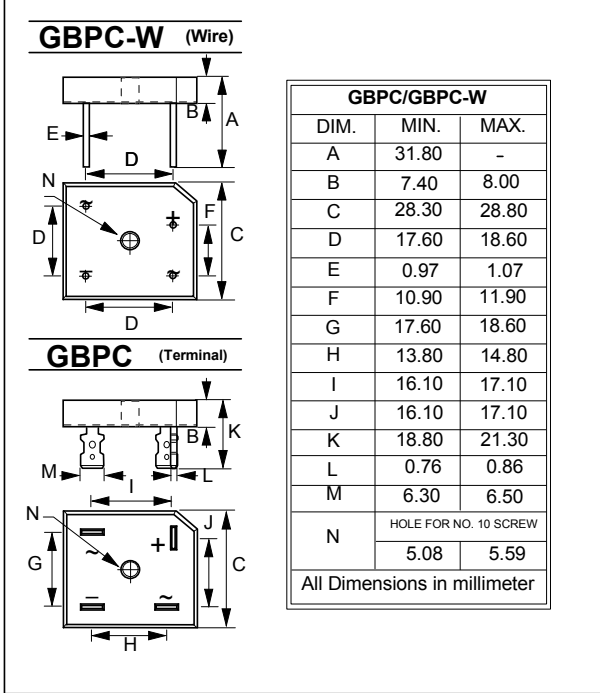


**GLASS PASSIVATED BRIDGE RECTIFIERS**

REVERSE VOLTAGE - **50 to 1000** Volts  
FORWARD CURRENT - **15** Amperes

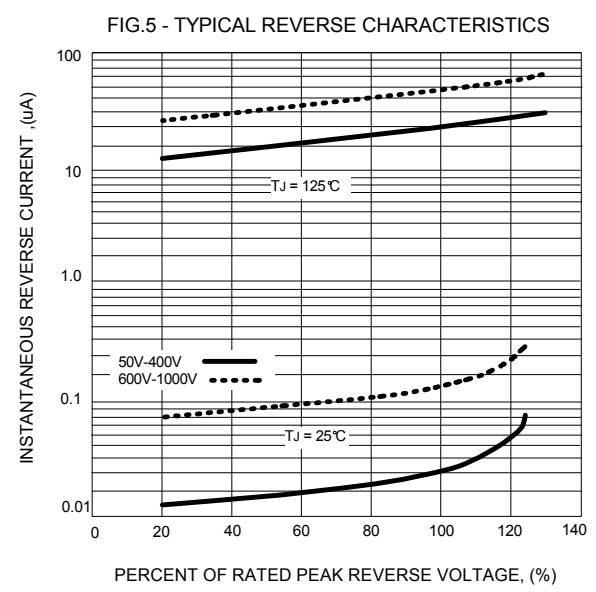
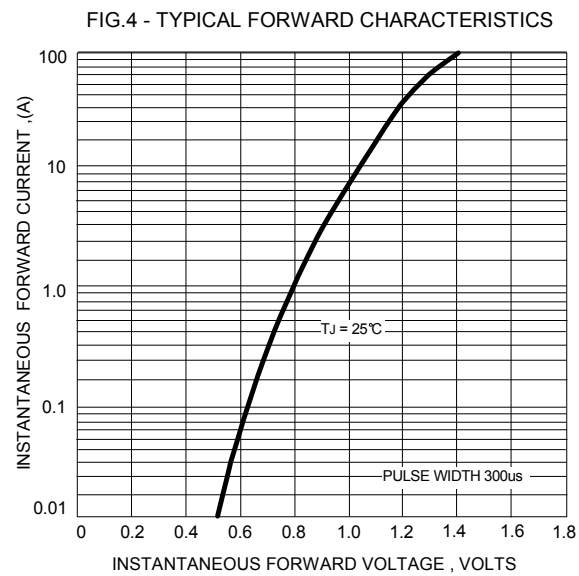
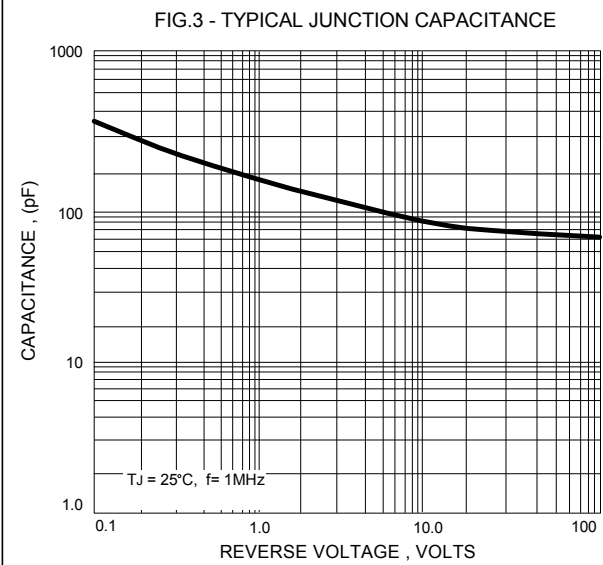
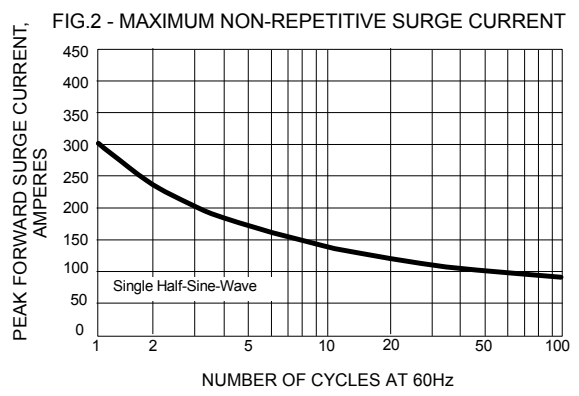
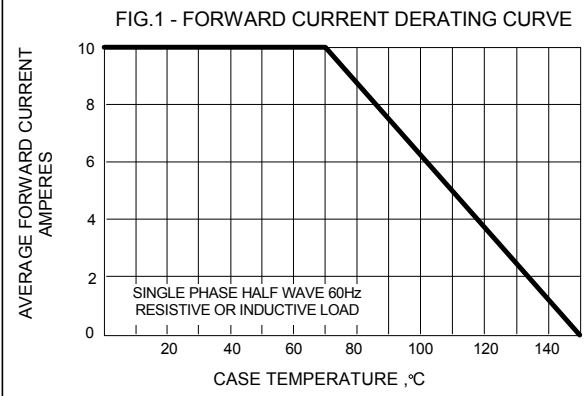
- FEATURES**
- Rating to 1000V PRV
  - High efficiency
  - Glass passivated chip junction
  - Electrically isolated metal case for maximum heat dissipation
  - The plastic material has UL flammability classification 94V-0
  - UL Recognition File # E95060
- MECHANICAL DATA**
- Case : Molded plastic with Heatsink internally mounted in the bridge encapsulation
  - Polarity : As marked on Body
  - Mounting : Hole for # 10 screw
  - Weight : 0.63 ounces , 18.0 grams (terminal)  
: 0.51 ounces , 14.5 grams (wire)



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**  
Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	GBPC 15005/W	GBPC 1501/W	GBPC 1502/W	GBPC 1504/W	GBPC 1506/W	GBPC 1508/W	GBPC 1510/W	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>c</sub> =T <sub>a</sub>	I <sub>(AV)</sub>	15.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	300							A
Maximum forward Voltage at 7.5A DC	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>J</sub> =25°C @T <sub>J</sub> =125°C	I <sub>R</sub>	5.0 500							uA
Typical Junction Capacitance per element (Note 1)	C <sub>J</sub>	110							pF
I <sup>2</sup> t Rating for fusing (t < 8.3ms), (Note 2)	I <sup>2</sup> t	374							A <sup>2</sup> S
Typical Thermal Resistance (Note 3)	R <sub>θJC</sub>	5.0							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

NOTES :1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
2.Measured at non-repetitive, for greater than 1ms and less than 8.3ms  
3.Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.



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