

# DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

GBPC 25005(W) THRU GBPC 2510(W)

## TECHNICAL SPECIFICATIONS OF GLASS PASSVATED BRIDGE RECTIFIER

### VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 25 Amperes

#### **FEATURES**

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* Diffused junction
- \* Glass passivated junction

### **MECHANICAL DATA**

\* Case: Molded plastic

\* Epoxy: UL 94-V0 rated flame retardant

\* Lead: MIL-STD-202E, Method 208 guaranteed

\* Polarity: Symbols molded or marked on body

\* Mounting position: Any

\* Weight: 25 grams



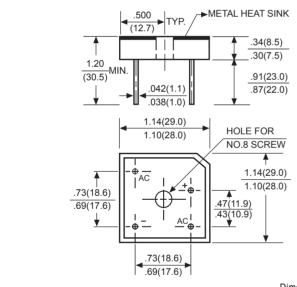


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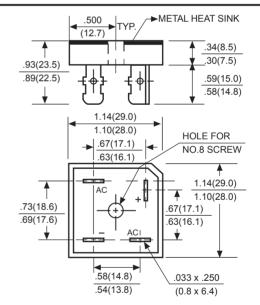
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#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.



Dimensions in inches and (millimeters)

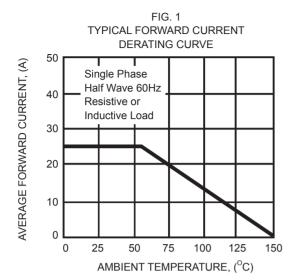


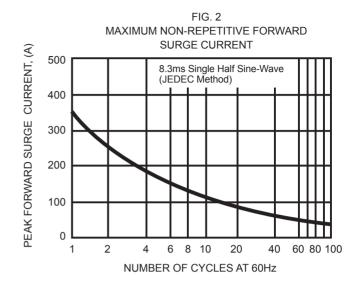
	SYMBOL	GBPC 25005(W)	GBPC 2501(W)	GBPC 2502(W)	GBPC 2504(W)	GBPC 2506(W)	GBPC 2508(W)	GBPC 2510(W)	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C	C Io	25						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)				350					
Maximum Instantaneous Forward Voltage at 12.5A DC		1.1						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage  @TA = 25		10 100						μ <b>A</b> mps	
1 <sup>2</sup> t Rating for Fusing (t<8.3mS)		508.4							A <sup>2</sup> s
Operating and Storage Temperature Range		-55 to +150							°C

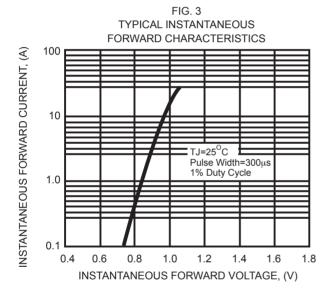
Note: Suffix "<u>W</u>" for wire lead type (e.g.:GBPC25005<u>W</u>,GBPC2501<u>W</u>...etc)

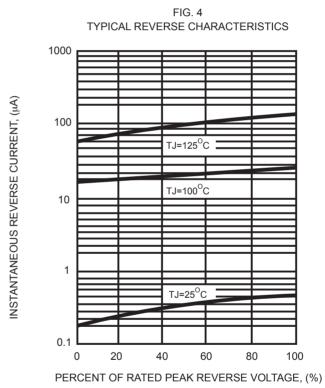
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# RATING AND CHARACTERISTIC CURVES (GBPC25005(W) THRU GBPC2510(W))









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