

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

GBPC 50005(W) THRU GBPC 5010(W)

TECHNICAL SPECIFICATIONS OF GLASS PASSVATED BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 50 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



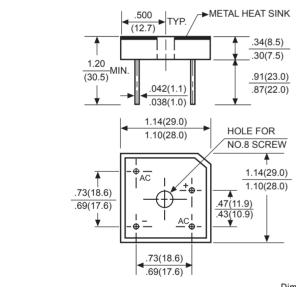




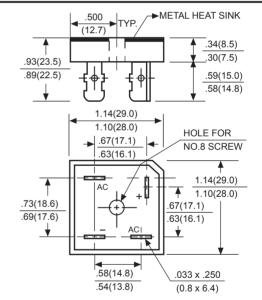
MBR-25

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)

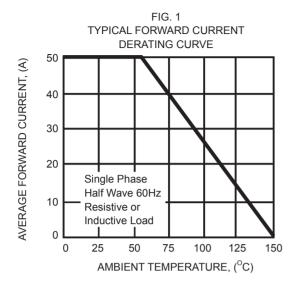


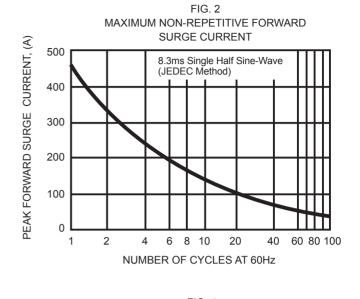
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	SYMBOL	GBPC 50005(W)	GBPC 5001(W)	GBPC 5002(W)	GBPC 5004(W)	GBPC 5006(W)	GBPC 5008(W)	GBPC 5010(W)	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C	lo	50						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	450						Amps	
Maximum Instantaneous Forward Voltage at 25A DC		1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage @TA = 25°C @TA = 125°C		10 100							μ A mps
I ² t Rating for Fusing (t<8.3mS)	l ² t	664							A ² s
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150							°C

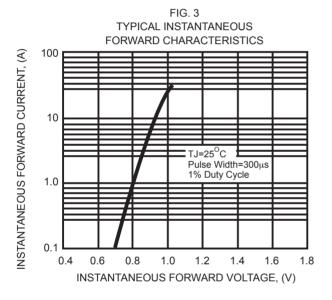
Note: Suffix "<u>W</u>" for wire lead type (e.g.:GBPC50005<u>W</u>,GBPC5001<u>W</u>...etc)

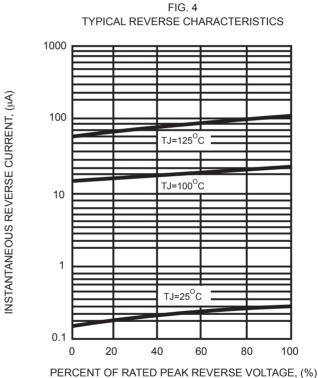
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RATING AND CHARACTERISTIC CURVES (GBPC50005(W) THRU GBPC5010(W))









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