DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

GBPC50005W

THRU

GBPC5010W

TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

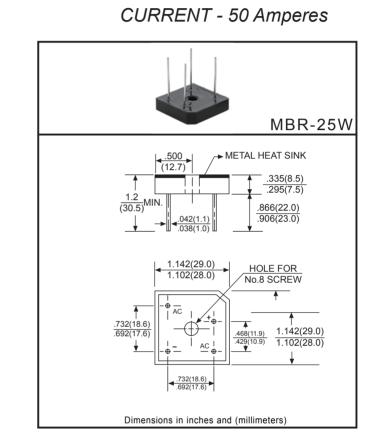
- * Ideal for printed circuit boardd
- * High surge current capability
- * Low forward voltage drop
- * Glass passivated junction

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94-V0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 25 grams

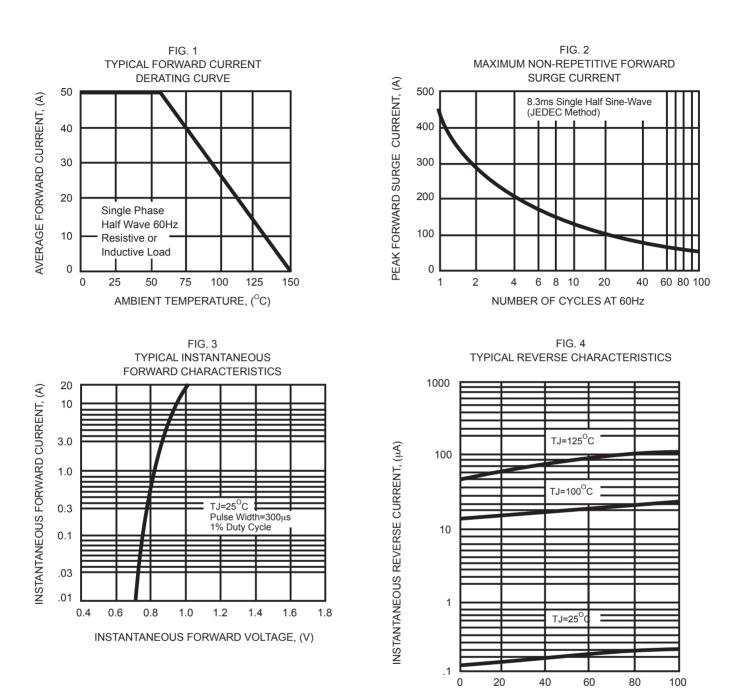
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



	SYMBOL	GBPC 50005W	GBPC 5001W	GBPC 5002W	GBPC 5004W	GBPC 5006W	GBPC 5008W	GBPC 5010W	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	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 25 A DC	VF	1.1				Volts			
Maximum DC Reverse Current at Rated@TJ = 25°CDC Blocking Voltage@TJ = 125°C	- IR	10 1000						μAmps	
I ² t Rating for Fusing (t<8.3msS)	l ² t		664					A ² s	
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150					°C		

RATING AND CHARACTERISTIC CURVES (GBPC50005W THRU GBPC5010W)



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

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