

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

GBPC15005W THRU GBPC1510W

TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 15 Amperes

FEATURES

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

MECHANICAL DATA

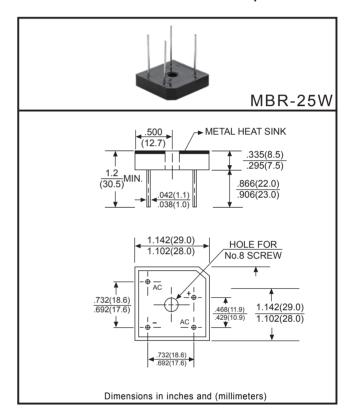
* Case: Molded plastic

* 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

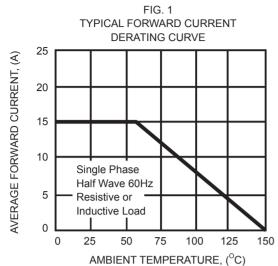
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

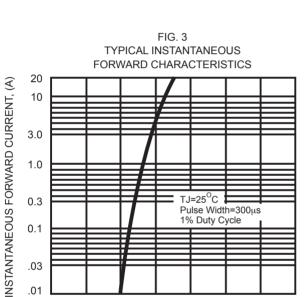


		SYMBOL	GBPC 15005W		GBPC 1502W	GBPC 1504W		GBPC 1508W	GBPC 1510W	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C		lo	15							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	300							Amps
Maximum Instantaneous Forward Voltage at 7.5 A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$@TJ = 25^{\circ}C$ $@TJ = 125^{\circ}C$	- Ir	10 1000					μ A mps		
I ² t Rating for Fusing (t<8.3msS)		l ² t	373.5							A ² s
Operating and Storage Temperature Range		TJ,TSTG	-55 to +150							°C

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RATING AND CHARACTERISTIC CURVES (GBPC15005W THRU GBPC1510W)





1.0

1.2

INSTANTANEOUS FORWARD VOLTAGE, (V)

1.4

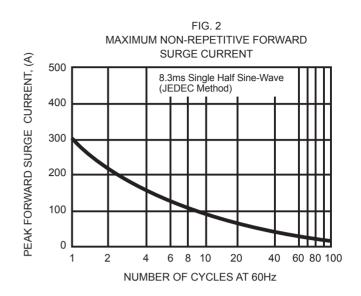
1.6

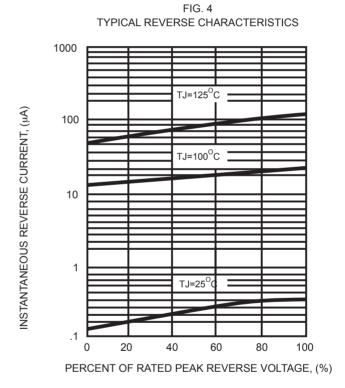
1.8

0.6

0.8

0.4





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