# DC COMPONENTS CO., LTD.

### RECTIFIER SPECIALISTS

GBPC35005 THRU

GBPC3510

### TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

#### FEATURES

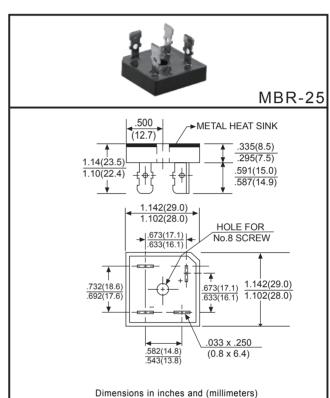
- \* Ideal for printed circuit boardd
- \* High surge current capability
- \* Low forward voltage drop
- \* Glass passivated junction

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

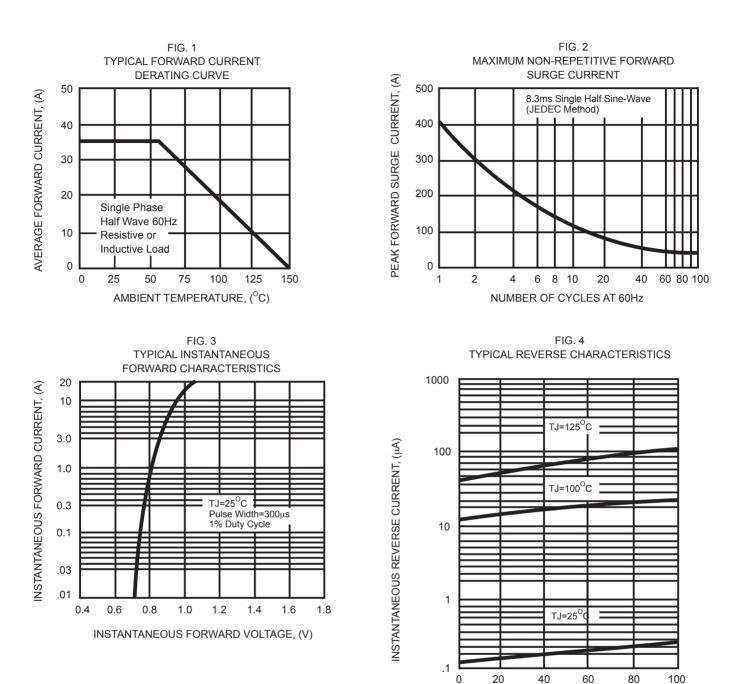


	SYMBOL	GBPC 35005	GBPC 3501	GBPC 3502	GBPC 3504	GBPC 3506	GBPC 3508	GBPC 3510	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C	lo	35						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	400						Amps	
Maximum Instantaneous Forward Voltage at 17.5 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 <sup>2</sup> t Rating for Fusing (t<8.3msS)	l <sup>2</sup> t	664						A <sup>2</sup> s	
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150						°C	

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## CURRENT - 35 Amperes

### **RATING AND CHARACTERISTIC CURVES (GBPC35005 THRU GBPC3510)**



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

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