

GBPC15/25/35/50 SERIES

REVERSE VOLTAGE - 50 to 1000Volts
 FORWARD CURRENT - 15/25/35/50Amperes

GLASS PASSIVATED
 BRIDGE RECTIFIERS

Features

- Surge overload -300~450 amperes peak
- Low forward voltage drop
- Mounting position :Any
- Electrically isolated base-2000 Volts
- Solderable 0.25" FAST ON terminals
- Materials used carries U/L recognition
- RoHS compliant package

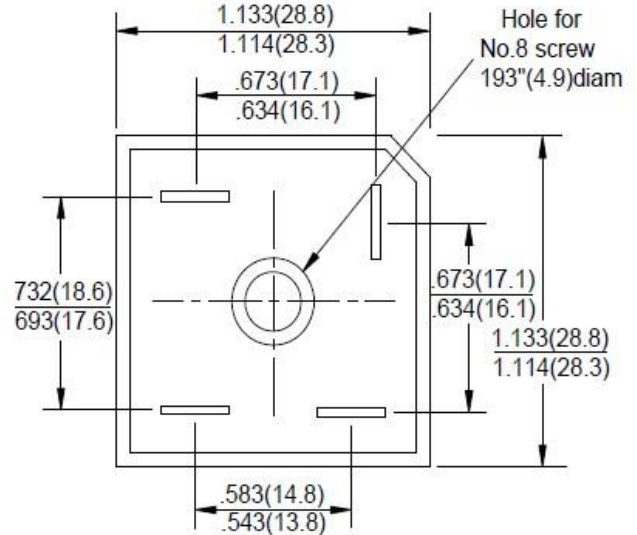
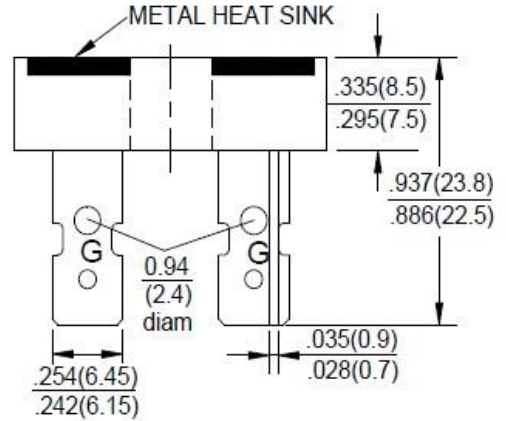
Packing & Order Information

500/Box



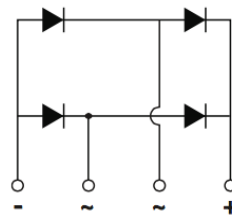
**RoHS
 COMPLIANT**

GBPC



Dimensions in inches and (millimeters)

Graphic symbol



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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

For capacitive load, derate current by 20%

Rating	Symbol	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	Unit	
		15005	1501	1502	1504	1506	1508	1510		
		25005	2501	2502	2504	2506	2508	2510		
		35005	3501	3502	3504	3506	3508	3510		
		50005	5001	5002	5004	5006	5008	5010		
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V	
Maximum average forward Rectified output current $T_c = 55\text{ }^\circ\text{C}$	$I_{(AV)}$		15		25		35		50	A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	GBPC 15	300	GBPC 25	350	GBPC 35	400	GBPC 50	450	A
Maximum Forward Voltage Drop Per Element at 7.5/12.5/17.5/25.0 A Peak	V_F	1.1							V	
Maximum Reverse Current at Rated DC Blocking Voltage Per Element @ $T_J=25\text{ }^\circ\text{C}$	I_R	10							μA	
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$	
Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^\circ\text{C}$	

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■ RATING AND CHARACTERISTIC CURVES

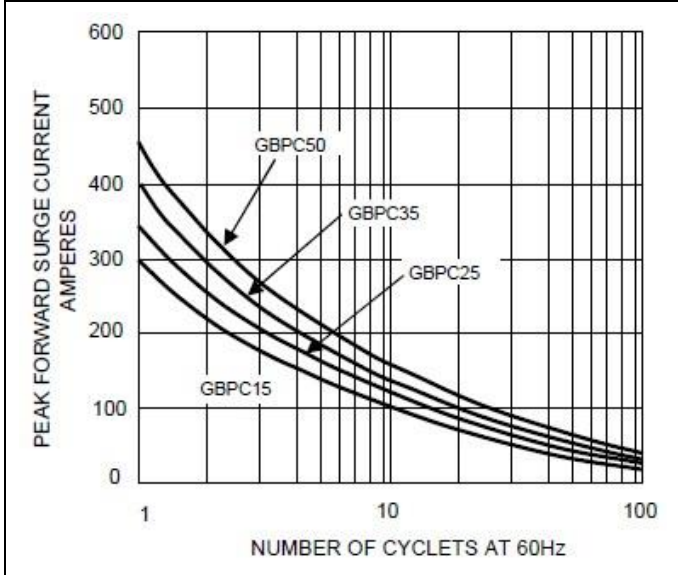


FIG.1 - MAXIMUM FORWARD SURGE CURRENT

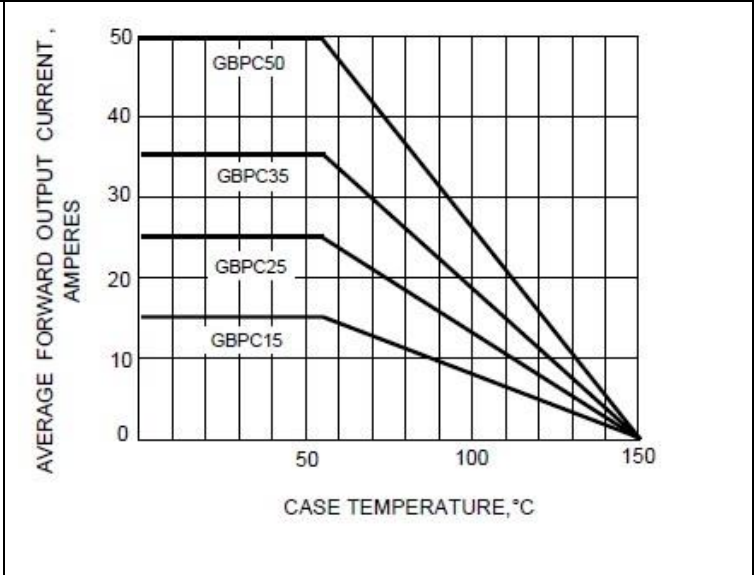


FIG.2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

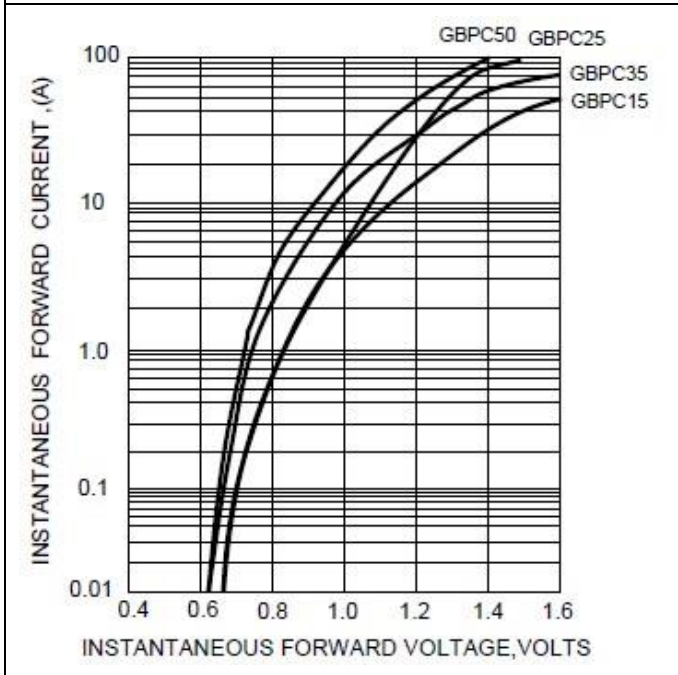


FIG.3- TYPICAL FORWARD CHARACTERISTIC

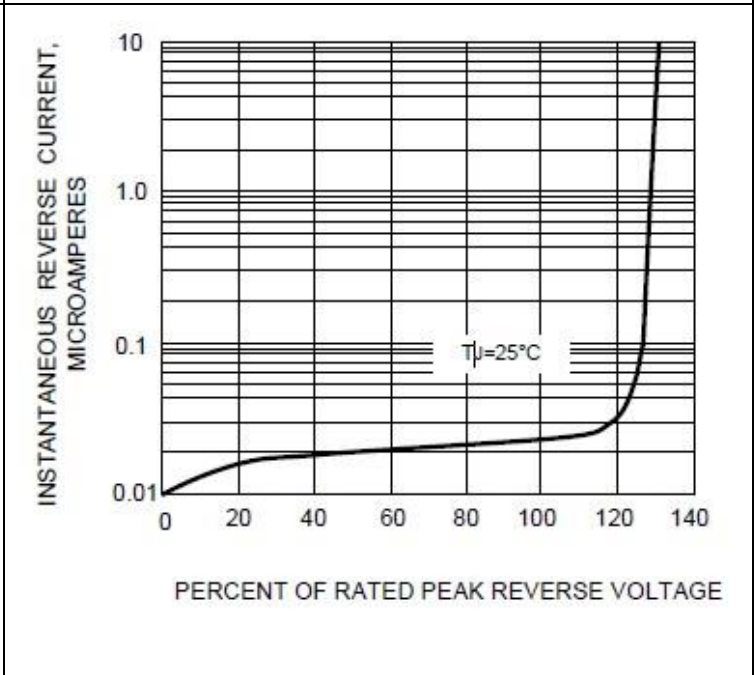


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

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