



GBPC15/25/35/50A SERIES

HIGH CURRENT BRIDGE RECTIFIER

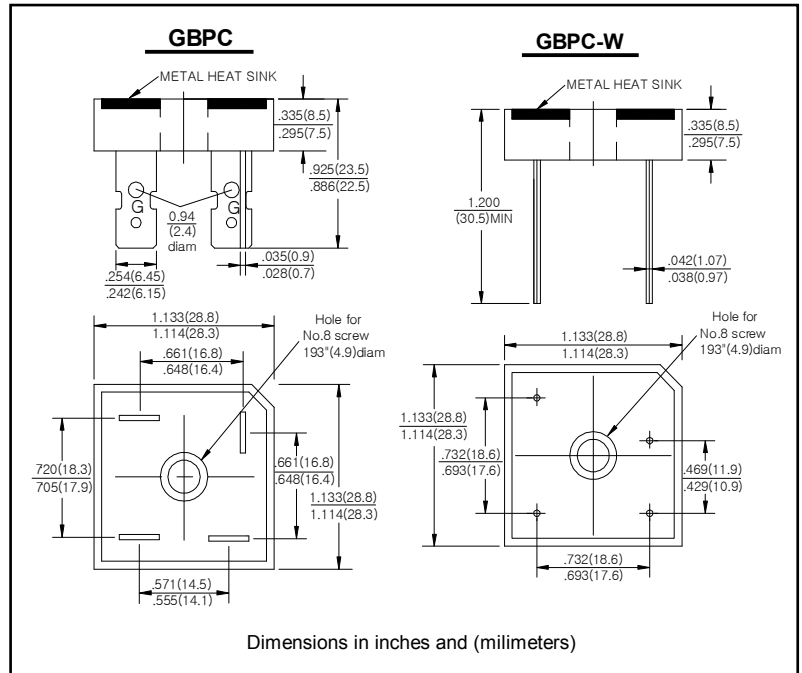
Reverse Voltage - 50 to 1000 Volts Forward Current - 15/25/35/50 Ampere

FEATURES

- Glass Passivated Die Construction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Electrically Isolated Epoxy Case for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 2500V

MECHANICAL DATA

- Case : Molded Plastic with Heatsink
- Terminals: Plated Leads Solderable per MIL-STD 202, method 208
- Weight : GBPC 21 grams (approx.)
GBPC-W 18 grams (approx.)
- Marking: Type Number



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 current derate by 20%.

Characteristics	Symbol	-005/W	-01/W	-02/W	-04/W	-06/W	-08/W	-10/W	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								V
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	
DC Blocking Voltage	V_R								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectifier Output Current @ $T_c = 55^\circ C$	GBPC15 GBPC25 GBPC35 GBPC50 I_O				15 25 35 50				A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave Superimposed on rated load (JEDEC Method)	GBPC15 GBPC25 GBPC35 GBPC50 I_{FSM}				300 350 400 450				A
Forward Voltage Drop (per element)	GBPC15 @ $I_F = 7.5A$ GBPC25 @ $I_F = 12.5A$ GBPC35 @ $I_F = 17.5A$ GBPC50 @ $I_F = 25.0A$ V_{FM}				1.1				V
Peak Reverse Current At Rated DC Blocking Voltage	@ $T_c = 25^\circ C$ @ $T_c = 125^\circ C$ I_{RM}				10 1.0				μA mA
Operating and Storage Temperature Range	T_J, T_{STG}				-65 to + 150				$^\circ C$



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RATINGS AND CHARACTERISTIC CURVES

FIG.1-MAXMUN FORWARD SURGE CURRENT

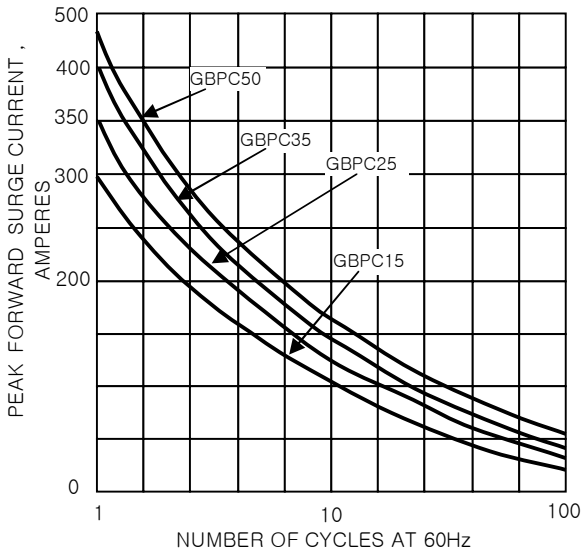


FIG.2-DEATING CURVE OUTPUT RECTIFIED CURRENT

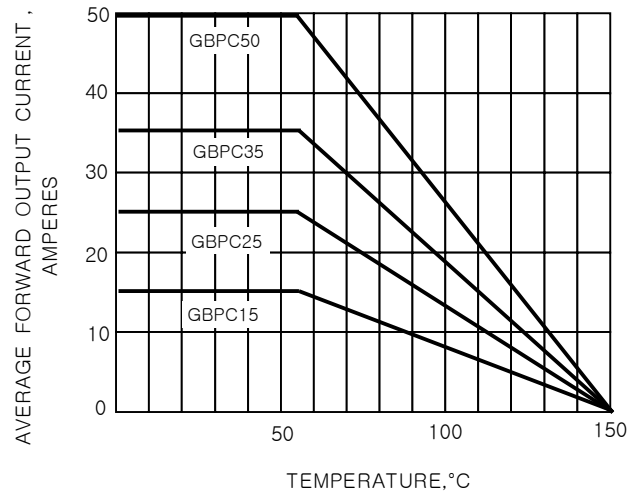


FIG.3-TYPICAL FORWARD CHARACTERISTICS

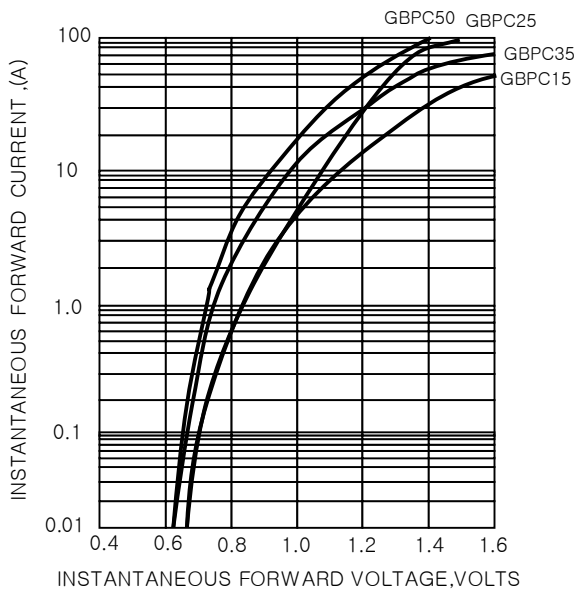


FIG.4-TYPICAL REVERSE CHARACTERISTICS

