GBPC15/25/35/50A SERIES

HIGH CURRENT BRIDGE RECTIFIER

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

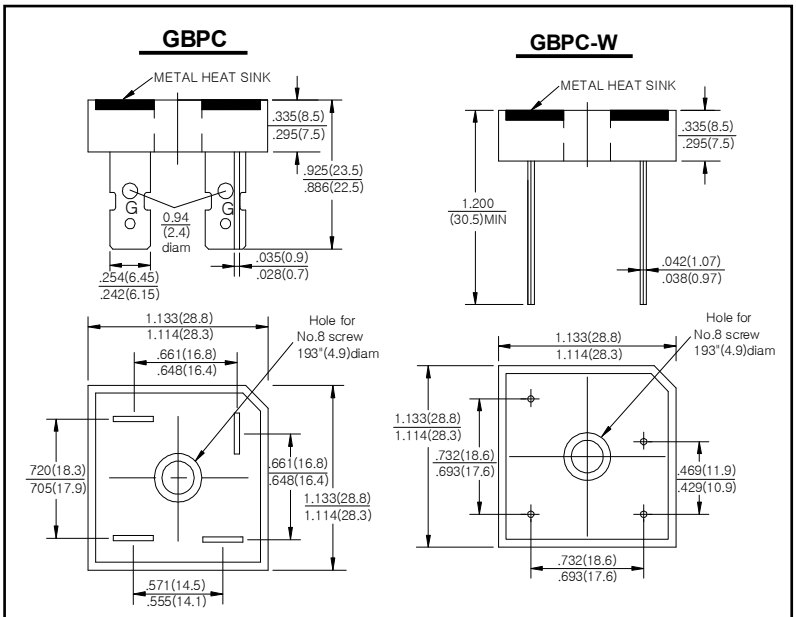
FEATURES

- 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

RoHS Compliant



Dimensions in inches and (milimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ 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 Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectifier Output Current @T_C = 55°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
Peark Reverse Current @T_C = 25°C At Rated DC Blocking Voltage @T_C = 125°C	I_{RM}	10 1.0							μA mA
Operating and Storage Temperature Range	T_J,T_{STG}	-65 to + 150							°C

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RATINGS AND CHARACTERISTIC CURVES

FIG.1-MAXMUN FORWARD SURGE CURRENT

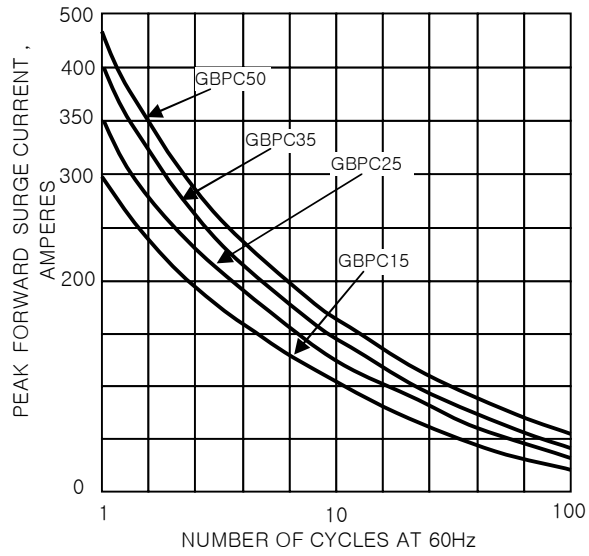

FIG.2-DERATING CURVE OUTPUT RECTIFIED CURRENT

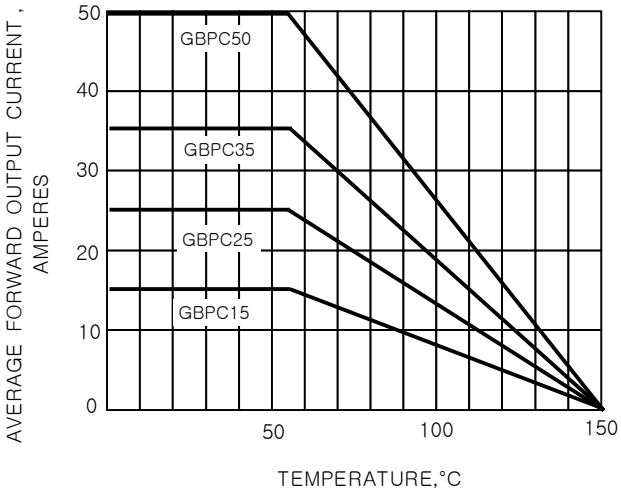

FIG.3-TYPICAL FORWARD CHARACTERISTICS

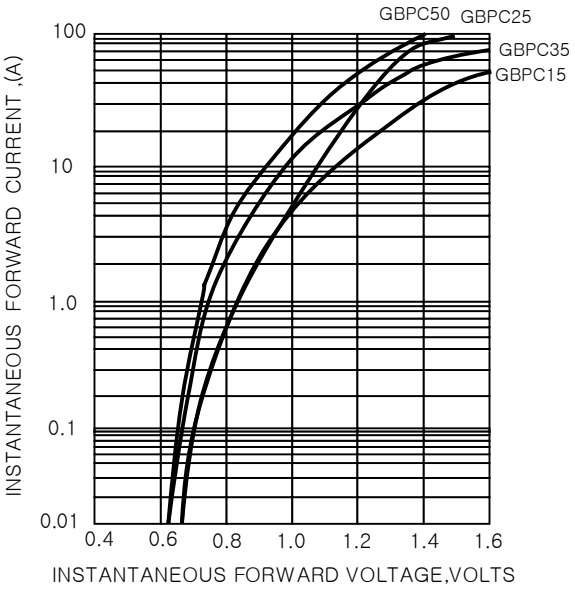

FIG.4-TYPICAL REVERSE CHARACTERISTICS