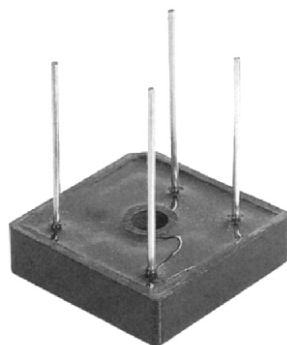


GBPC15,25,35/W SERIES

15/25/35 A GLASS
PASSIVATED BRIDGE RECTIFIER



CHENG-YI
ELECTRONIC

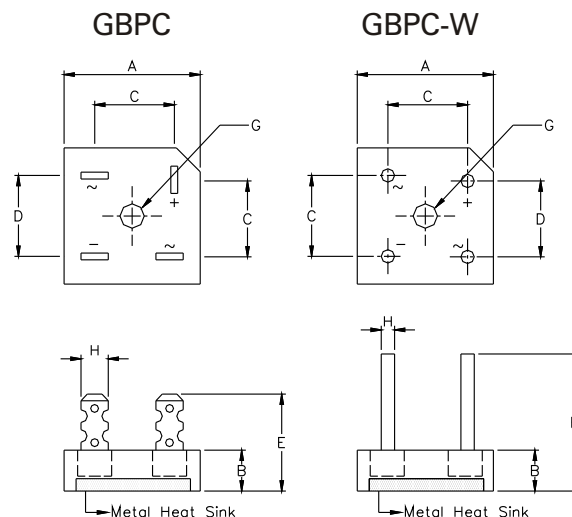


FEATURES

- 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
- UL Recognized File #E157705

MECHANICAL DATA

- Cass: Epoxy Cass With Heat Sink Internally Mounted in Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Symbols Marked on Case
- Mounting: Through Hole for #10 Screw
- Weight: GBPC 24 grams (approx.)
GBPC-W 21 grams (approx.)
- Marking: Type Number



| | GBPC | | GBPC-W | |
|---------------------|-----------------------------------|-------|--------|-------|
| Dim | Min | Max | Min | Max |
| A | 28.40 | 28.70 | 28.40 | 28.70 |
| *B | 7.30 | 7.90 | 7.30 | 7.90 |
| C | 15.70 | 16.70 | 17.10 | 19.10 |
| D | 17.50 | 18.50 | 10.90 | 11.90 |
| E | 22.86 | 25.40 | 30.50 | — |
| G | Hole for #10 screw, 5.08Ø Nominal | | | |
| H | 6.35 Typical | | 0.97Ø | 1.07Ø |
| ALL Dimension in mm | | | | |

"W" Suffix Designates Wire Leads

No Suffix Designates Faston Terminals

*ALL Models Available on Dim. B=7.9mm Max. Epoxy Case

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS @ T_A=25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| Characteristics | Symbol | -00/W | -01/W | -02/W | -04/W | -06/W | -08/W | -10/W | UNITS |
|--|---------------------|-------|-------|-------|-------------------|-------|-------|-------|-------|
| Peak Repetitive Reverse Voltage | V _{RRM} | | | | | | | | |
| Working Peak Reverse Voltage | V _{RWM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| 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°C | I _O | | | | 15 25 35 | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave Superimposed on rated load (JEDEC Method) | I _{FSM} | | | | 300 300 400 | | | | A |
| Forward Voltage Drop (per element) | V _{FM} | | | | 1.1 | | | | V |
| Peak Reverse Current At Rated DC Blocking Voltage | I _{RM} | | | | 5.0 500 | | | | μA |
| I ² t Rating for Fusing (t<8.3ms) (Note.1) | I ² t | | | | 375 375 660 | | | | A²S |

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RATING AND CHARACTERISTICS CURVES GBPC15,25,35/W SERIES

Fig. 1 Forward Current Derating Curve

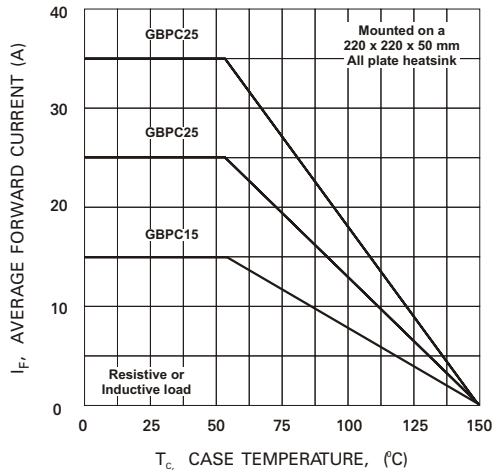


Fig. 2 Typical Forward Characteristics (per element)

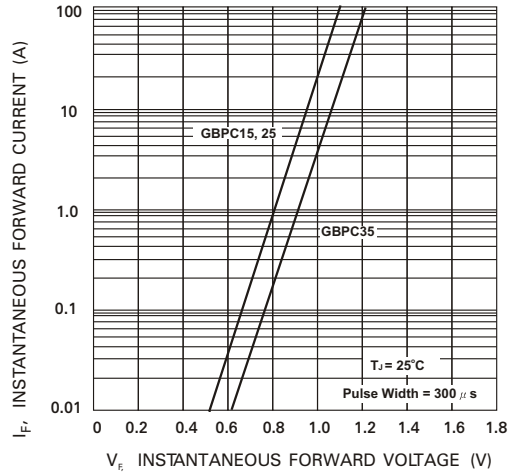


Fig. 3 Max Non-Repetitive Surge Current

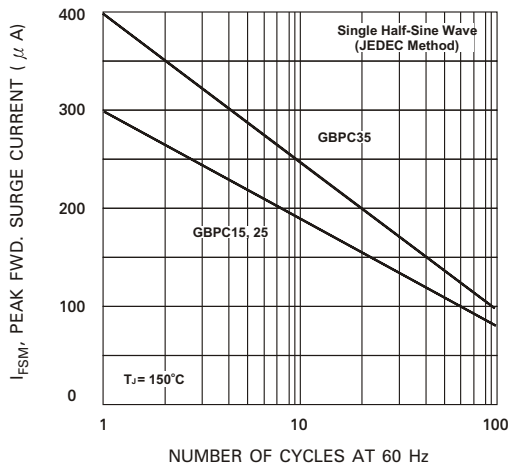


Fig. 4 Typical Junction Characteristics (per element)

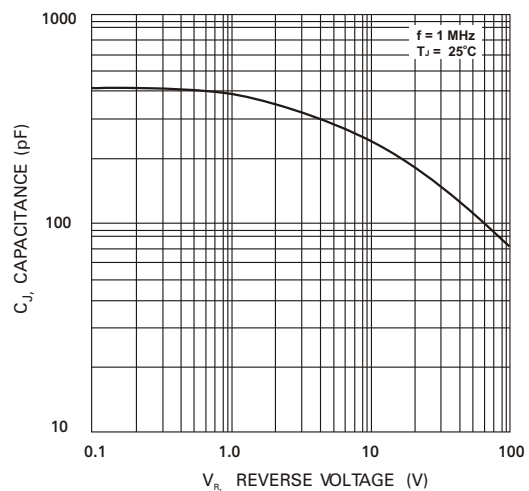


Fig. 5 Typical Reverse Characteristics (per element)

