50 A GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 100 to 1000 V

Forward Current – 50 A

Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0
- Lead free in comply with EU RoHS 2011/65/EU directives

Mechanical Data

- Case: GBPC
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	GBPC 5001	GBPC 5002	GBPC 5004	GBPC 5006	GBPC 5008	GBPC 5010	Units
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Peak Repetitive Reverse Voltage	V_{RWM}	70	140	280	420	560	700	V
DC Blocking Voltage	V_{RMS}	100	200	400	600	800	1000	V
Average Rectified Output Current (Note1) @TA=55 ℃	$I_{(AV)}$	50.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	500						A
Forward Voltage per element @IF =25.0A	V_F	1.1						V
Peak Reverse Current @TA=25°C At Rated DC Blocking Voltage @TA=125°C	I_R	10.0 500						μA
Typical Junction Capacitance per leg	C_J	300						pF
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JL}$	2.2						°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150						°C

1.Mounted on glass epoxy PC board with 1.3mm² solder pad.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

Fig. 1 Output Current Derating Curve

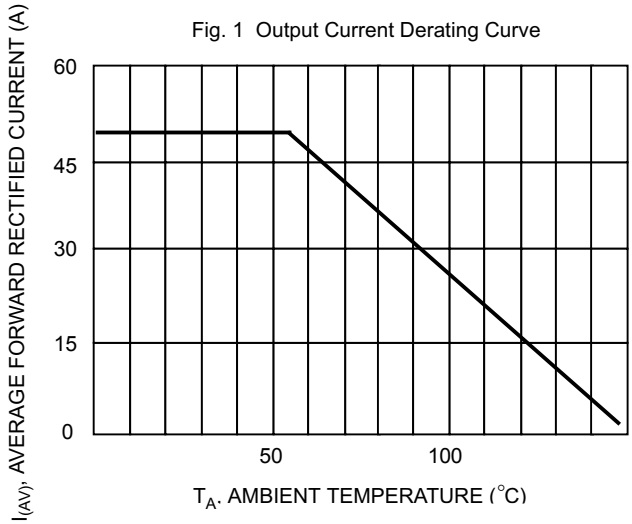


Fig. 2 Typical Forward Characteristics (per leg)

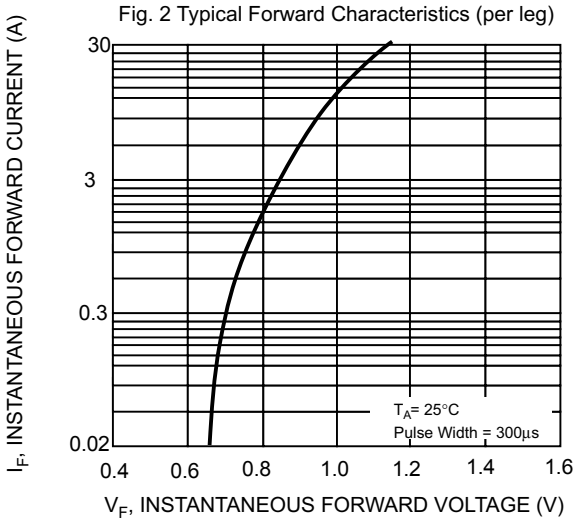


Fig. 3 Maximum Peak Forward Surge Current (per leg)

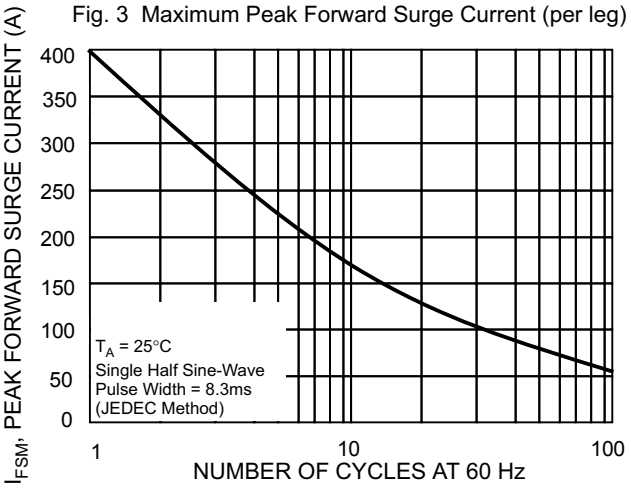
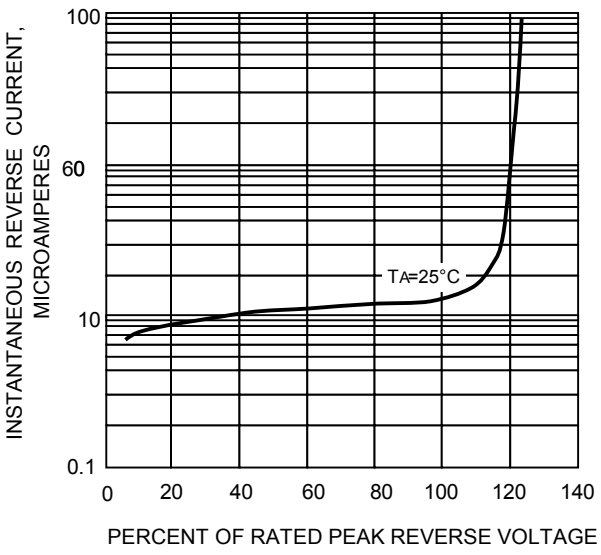
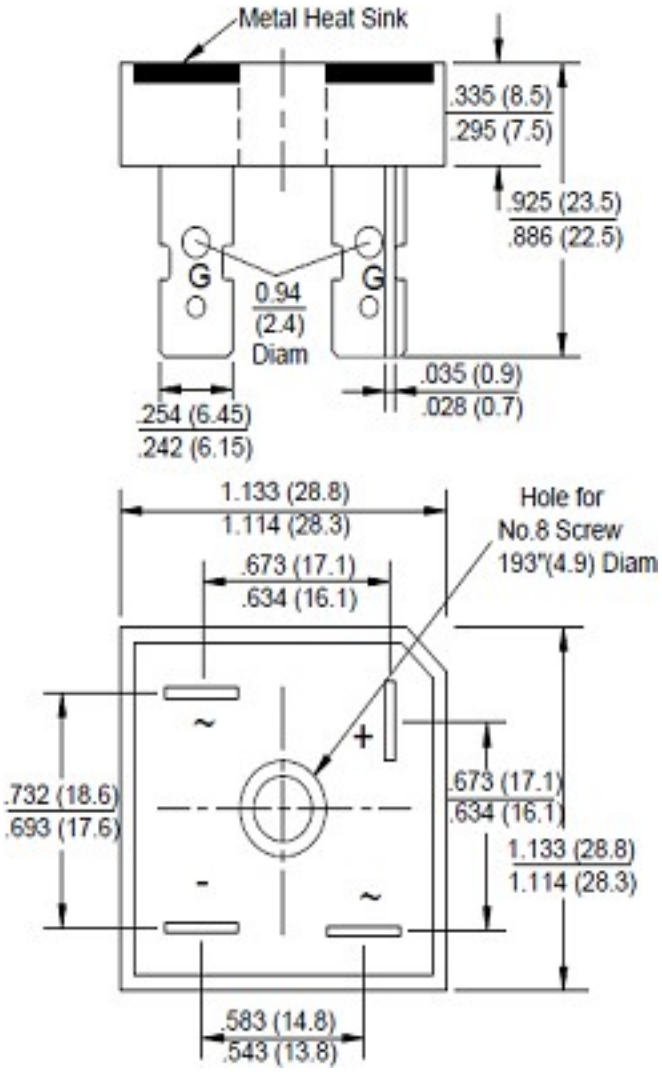


Fig. 4 Typical Junction Capacitance



Package Outline GBPC



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
GBPC	BOX	50	EIA-481-1

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