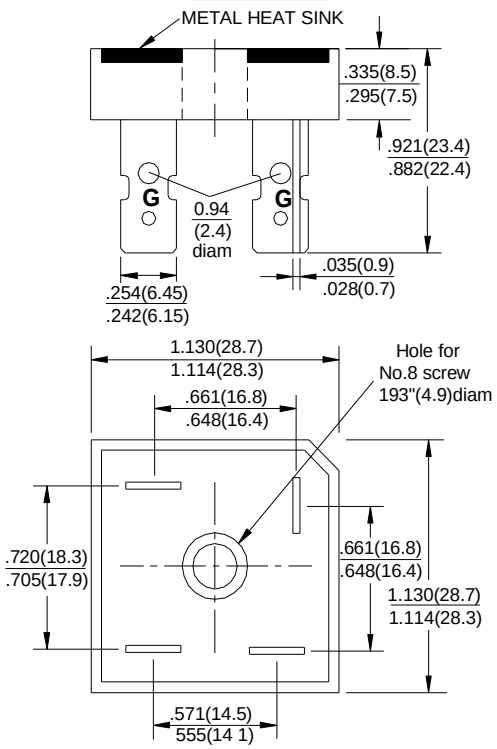
GBPC15/25/35/50 SERIES

GLASS PASSIVATED BRIDGE RECTIFIERS

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

GBPC



Dimensions in inches and (milimeters)

Features

- Glass Passivated Die Construction
- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Surge Overload Rating to 400A Peak
- Electrically Isolated Metal Base for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 1500V
- Materials used carries U/L recognition

Mechanical Data

- Case: Molded Plastic with Heatsink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting: Through Hole for #10 Screw
- Mounting Torque: 8.0 Inch-pounds Maximum
- GBPC Weight: 20 grams (approx.)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBPC 15005 / 25005 / 35005 / 50005	GBPC 1501 / 2501 / 3501 / 5001	GBPC 1502 / 2502 / 3502 / 5002	GBPC 1504 / 2504 / 3504 / 5004	GBPC 1506 / 2506 / 3506 / 5006	GBPC 1508 / 2508 / 3508 / 5008	GBPC 1510 / 2510 / 3510 / 5010	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	30	70	140	280	420	560	700	V
Maximum Average Forward Rectified Output Current @ T_C=55℃	$I_{(AV)}$	GBPC 10	15	GBPC 15	25	GBPC 25	35	GBPC 35	50	A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}		300		350		400		450	A
Maximum Forward Voltage Drop Per Element at 5.0/7.5/12.5/17.5/25.0 A Peak	V_F	1.1								V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element @ T_A=25℃	I_R	10								uA
Operating Temperature Range	T_J	-55 to +150								℃
Storage Temperature Range	T_{STG}	-55 to +150								℃

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FIG.1-MAXMUN FORWARD SURGE CURRENT

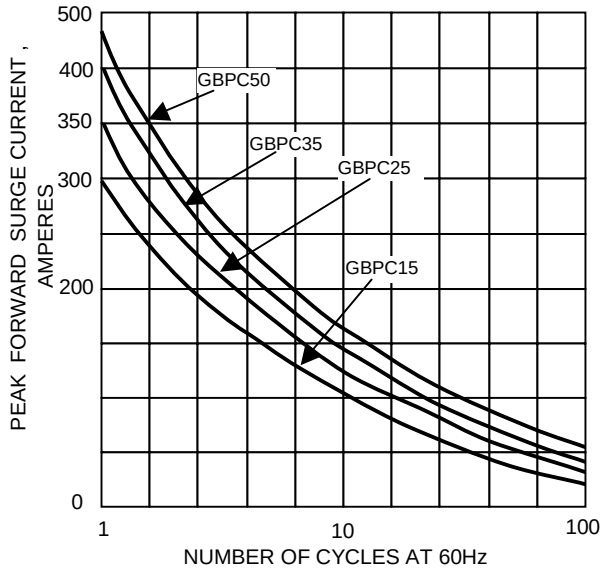


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

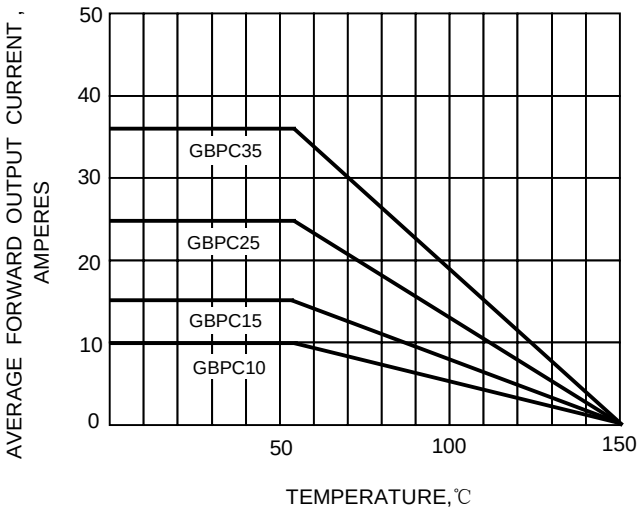


FIG.3-TYPICAL FORWARD CHARACTERISTICS

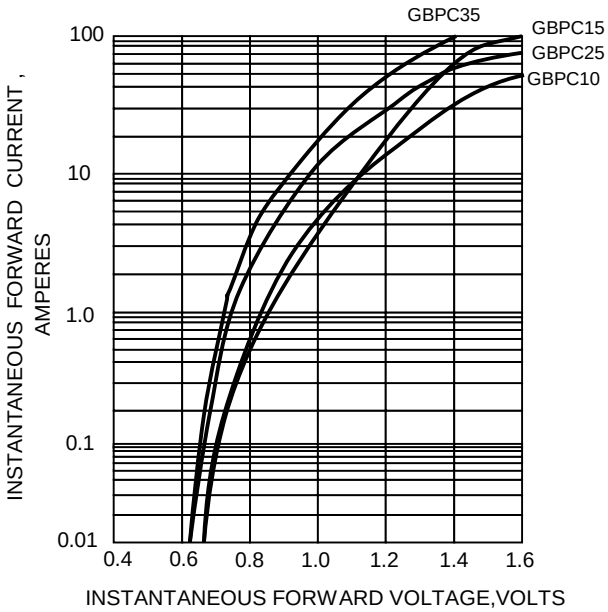
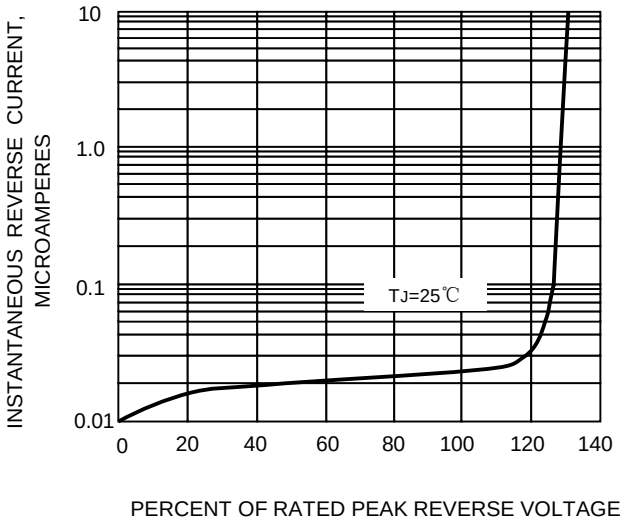


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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