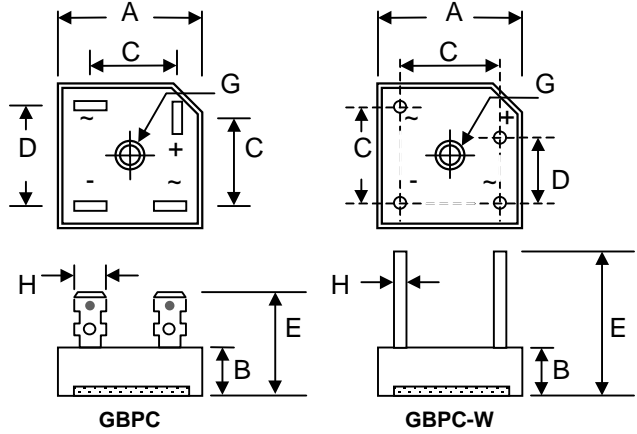


#### Features

- 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, Available in Both Low Profile and Standard Case
- Terminals: Plated Faston Lugs or Wire Leads, Add "W" Suffix to Indicate Wire Leads
- Polarity: As Marked on Case
- Mounting: Through Hole with #10 Screw
- Mounting Torque: 23 cm·kg (20 in·lbs) Max.
- Weight: 21 grams (GBPC); 18 grams (GBPC-W)
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version**



Dim	GBPC		GBPC-W		
	Low Profile / Standard	Min	Max	Min	Max
A	28.40	28.70	28.40	28.70	
B	7.50 / 10.97	8.50 / 11.23	7.50 / 10.97	8.50 / 11.23	
C	15.70	16.70	17.10	19.10	
D	17.50	18.50	10.90	11.90	
E	19.08 / 22.86	21.58 / 25.40	30.50	—	
G	Hole for #10 screw, 5.08Ø Nominal				
H	6.35 Typical		0.97Ø	1.07Ø	

All Dimension in mm

#### Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	GBPC25										Unit
		00	01	02	04	06	08	10	12	14	16	
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	1200	1400	1600	V
Working Peak Reverse Voltage	$V_{RWM}$											
DC Blocking Voltage	$V_R$											
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	840	980	1120	V
Average Rectified Output Current @ $T_C = 50^\circ\text{C}$	$I_O$	25										A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	350										A
Forward Voltage per leg @ $I_F = 12.5\text{A}$	$V_{FM}$	1.1										V
Peak Reverse Current @ $T_C = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_C = 125^\circ\text{C}$	$I_{RM}$	5.0 500										$\mu\text{A}$
$I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	375										$\text{A}^2\text{s}$
Typical Junction Capacitance (Note 1)	$C_j$	300										pF
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JC}$	1.9										$^\circ\text{C}/\text{W}$
RMS Isolation Voltage from Case to Leads	$V_{ISO}$	2500										V
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150										$^\circ\text{C}$

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.  
2. Mounted on 127 x 152 x 124mm Al. finned plate.

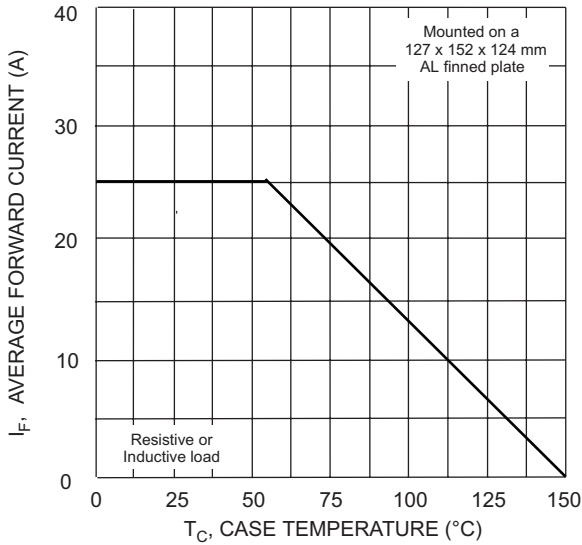


Fig. 1 Forward Current Derating Curve

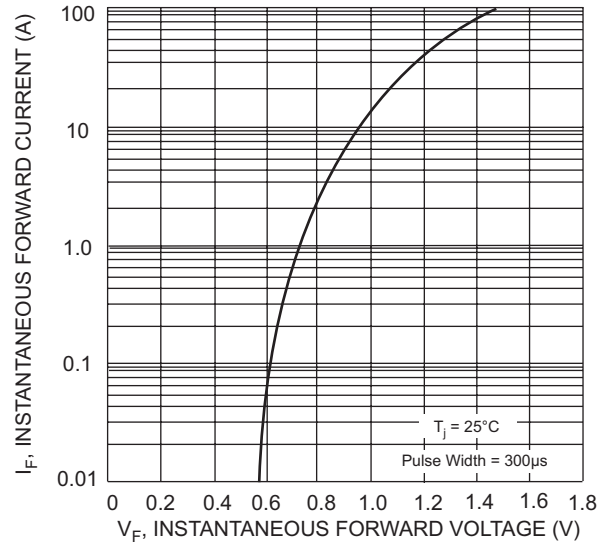


Fig. 2 Typical Forward Characteristics (per element)

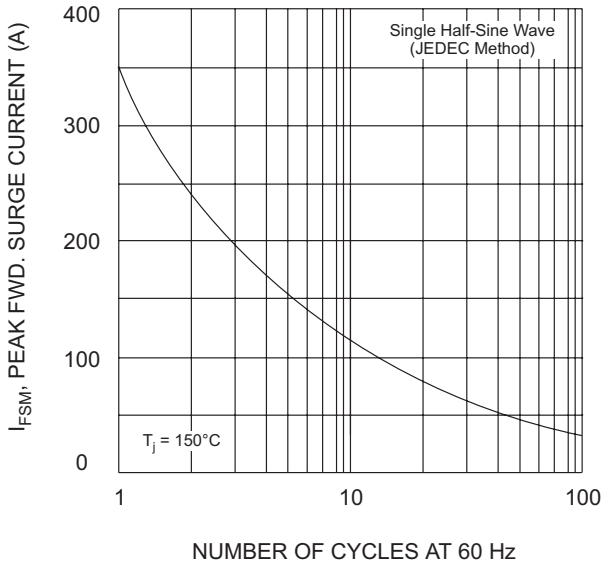


Fig. 3 Max Non-Repetitive Surge Current

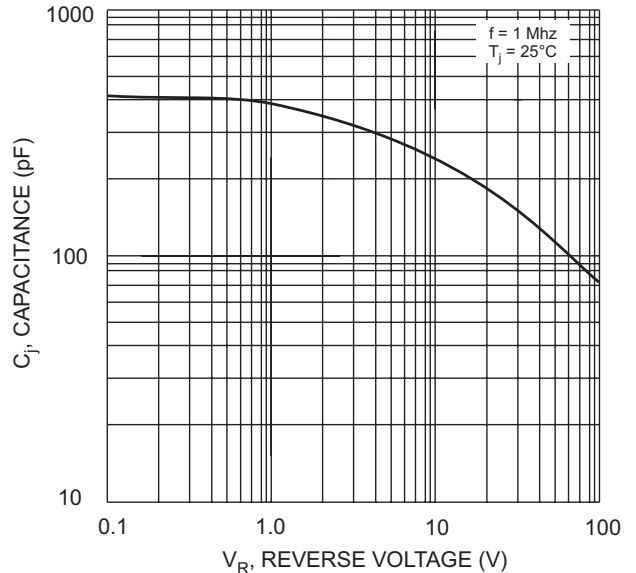


Fig. 4 Typical Junction Capacitance (per element)

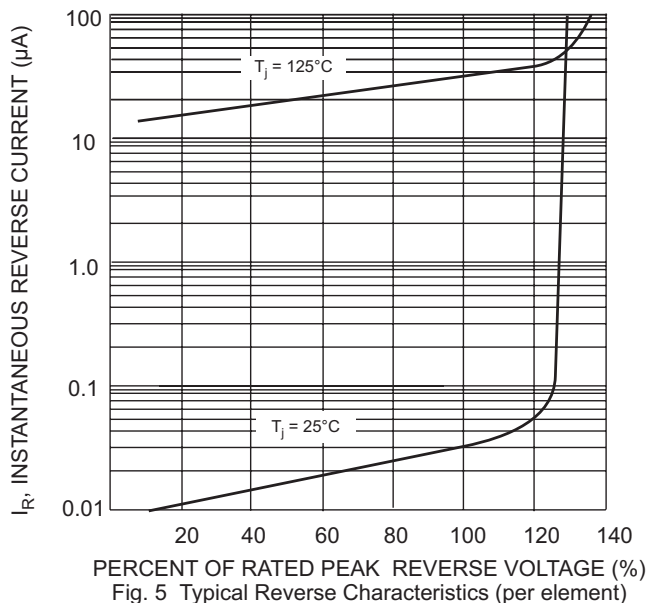


Fig. 5 Typical Reverse Characteristics (per element)