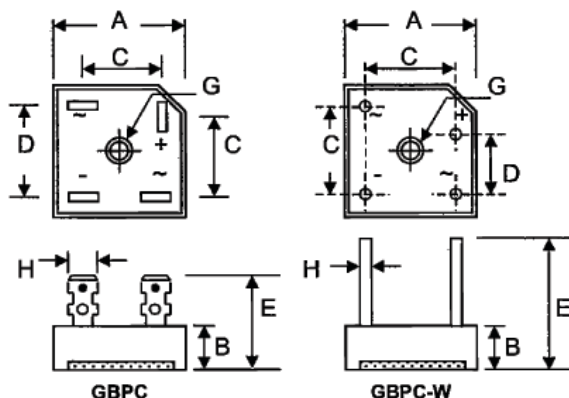


Features

- 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
- Recognized File # E157705

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, Add "-LF" Suffix to Part Number, See Page 4**



Dim	GBPC		GBPC-W	
	Low Profile / Standard	Standard	Low Profile / Standard	Standard
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	

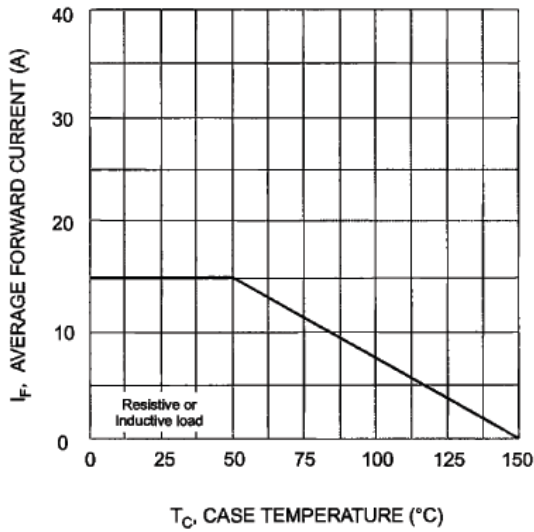
All Dimension in mm

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

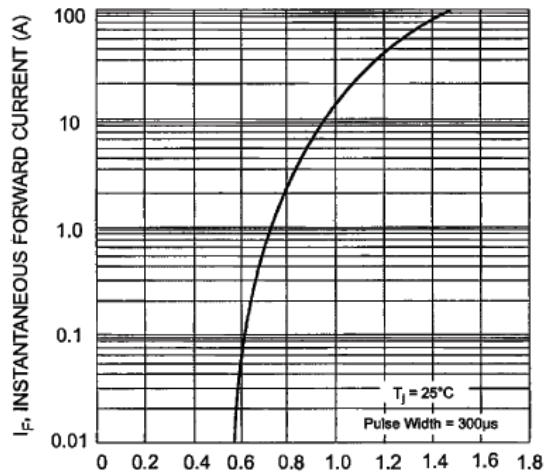
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	GBPC15										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°C	I _O	15										A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	300										A
Forward Voltage per leg @I _F = 7.5A	V _{FM}	1.1										V
Peak Reverse Current @T _C = 25°C	I _{RM}	5.0										µA
At Rated DC Blocking Voltage @T _C = 125°C		500										
I ² t Rating for Fusing (t < 8.3ms)	I ² t	375										A ² s
Typical Junction Capacitance (Note 1)	C _J	300										pF
Typical Thermal Resistance per leg (Note 2)	R _{θJC}	1.9										°C/W
RMS Isolation Voltage from Case to Leads	V _{ISO}	2500										V
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150										°C

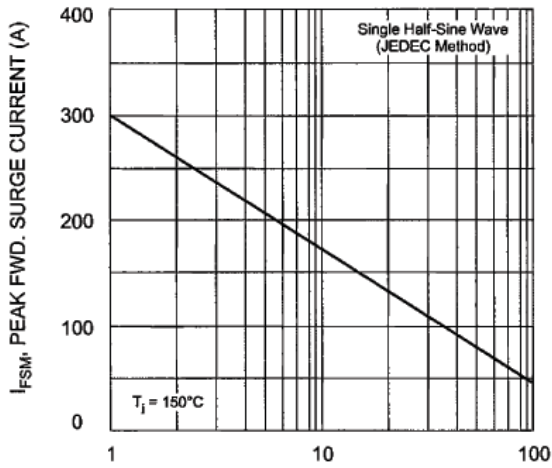
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
2. Mounted on 127 x 102 x 76mm Al. finned plate.



T_C , CASE TEMPERATURE ($^{\circ}$ C)
Fig. 1 Forward Current Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics (per element)



NUMBER OF CYCLES AT 60 Hz
Fig. 3 Max Non-Repetitive Surge Current

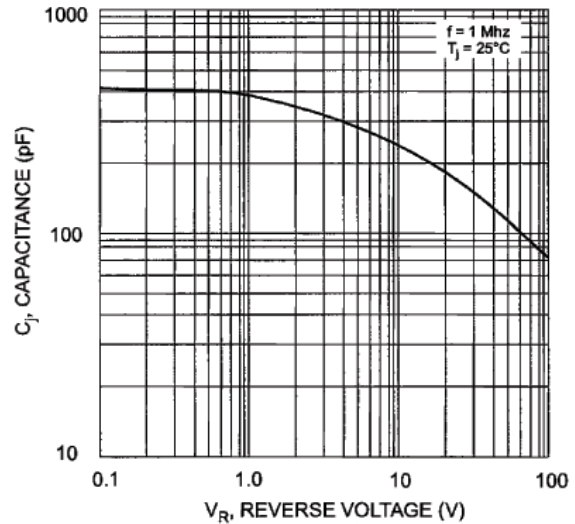


Fig. 4 Typical Junction Capacitance (per element)

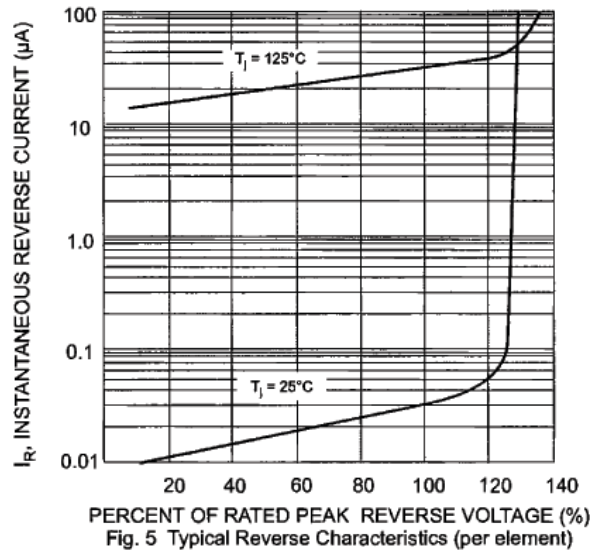




Fig. 5 Typical Reverse Characteristics (per element)

MARKING INFORMATION

GBPC	GBPC-W
 <p data-bbox="284 720 747 821"> = Manufacturer's Logo GBPC15xx = Device Number xx = 00, 01, 02, 04, 06, 08, 10, 12, 14 or 16 Polarity = As Marked on Body </p>	 <p data-bbox="863 720 1343 821"> = Manufacturer's Logo GBPC15xxW = Device Number xx = 00, 01, 02, 04, 06, 08, 10, 12, 14 or 16 Polarity = As Marked on Body </p>

PACKAGING INFORMATION

BULK

Case Style	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
GBPC	195 x 195 x 40	50	405 x 205 x 240	500	12.0
GBPC-W	195 x 195 x 40	50	405 x 205 x 240	500	11.0

Note: 1. Paper box, white or brown color.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
GBPC1500	Square Bridge	50 Units/Box
GBPC1500W	Square Bridge	50 Units/Box
GBPC1501	Square Bridge	50 Units/Box
GBPC1501W	Square Bridge	50 Units/Box
GBPC1502	Square Bridge	50 Units/Box
GBPC1502W	Square Bridge	50 Units/Box
GBPC1504	Square Bridge	50 Units/Box
GBPC1504W	Square Bridge	50 Units/Box
GBPC1506	Square Bridge	50 Units/Box
GBPC1506W	Square Bridge	50 Units/Box
GBPC1508	Square Bridge	50 Units/Box
GBPC1508W	Square Bridge	50 Units/Box
GBPC1510	Square Bridge	50 Units/Box
GBPC1510W	Square Bridge	50 Units/Box
GBPC1512	Square Bridge	50 Units/Box
GBPC1512W	Square Bridge	50 Units/Box
GBPC1514	Square Bridge	50 Units/Box
GBPC1514W	Square Bridge	50 Units/Box
GBPC1516	Square Bridge	50 Units/Box
GBPC1516W	Square Bridge	50 Units/Box

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, GBPC1500-LF.

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We power your everyday.