
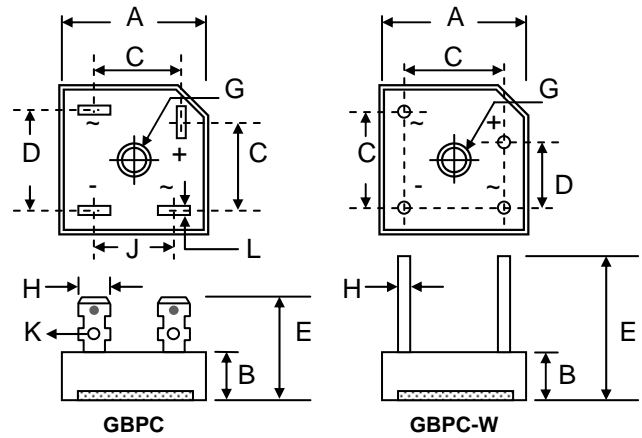


### Features

- Glass Passivated Die Construction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Heatsink Integrated Epoxy Case for Maximum Heat Dissipation
- Low Thermal Resistance
- High Surge Current Capability
-  Recognized File # E157705

### Mechanical Data

- Case: Epoxy Case with Heatsink, Available in Both Low Profile and Standard Case Height
- 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: 2.0 N.m 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	Low Profile / Standard	Low Profile / Standard	Low Profile / Standard
A	28.20	28.80	28.20	28.80
B	7.50 / 10.77	8.50 / 11.23	7.50 / 10.77	8.50 / 11.23
C	15.30	17.30	17.10	19.10
D	17.10	19.10	10.40	12.40
E	19.00 / 21.50	—	30.50	—
G	Hole for #10 screw, 5.08Ø Nominal			
H	6.35 Typical		0.97Ø	1.07Ø
J	13.20	15.20		
K	2.5Ø Typical			
L	0.71	0.91		

All Dimension in mm

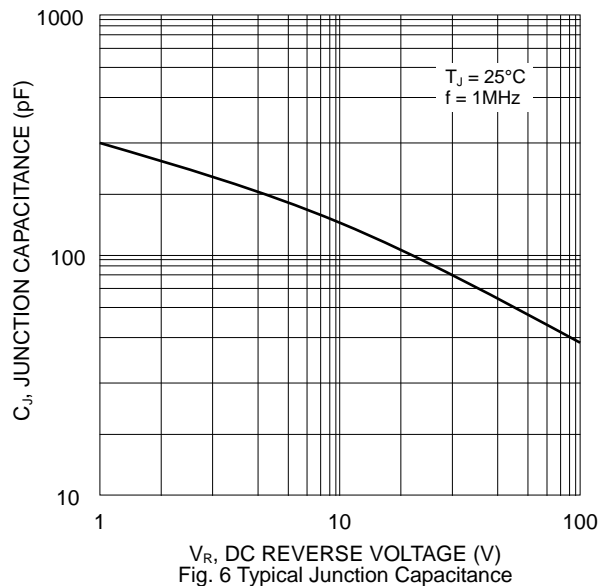
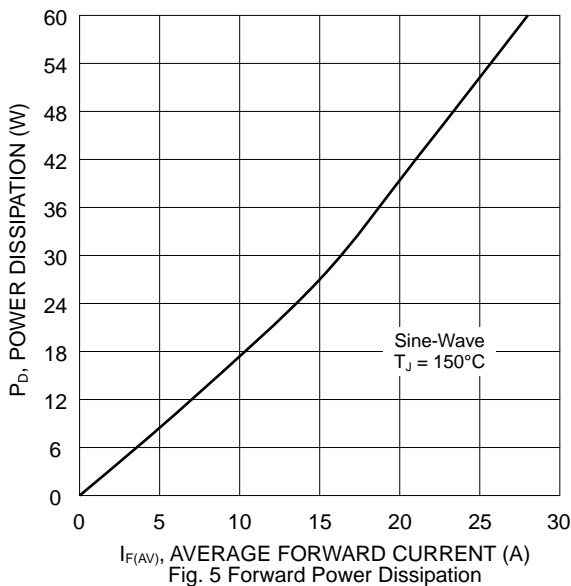
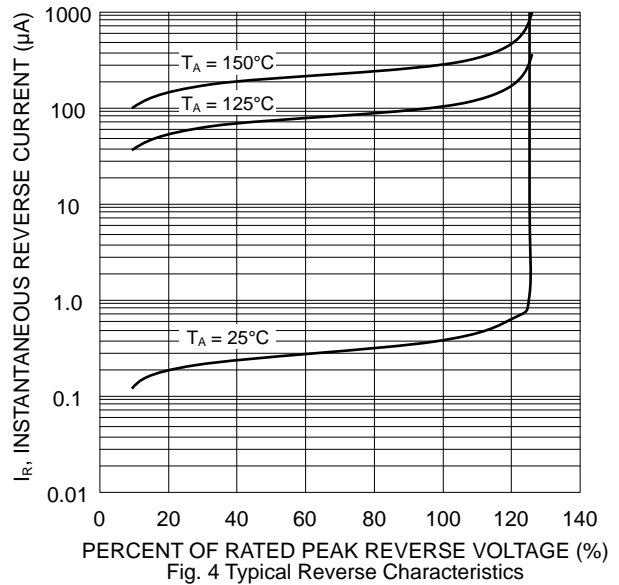
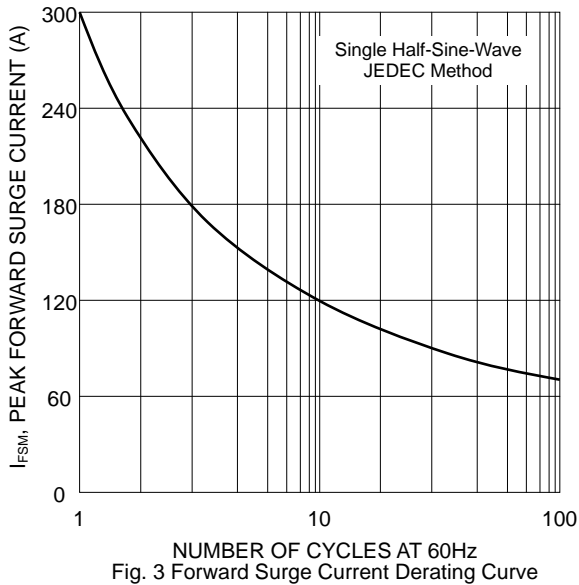
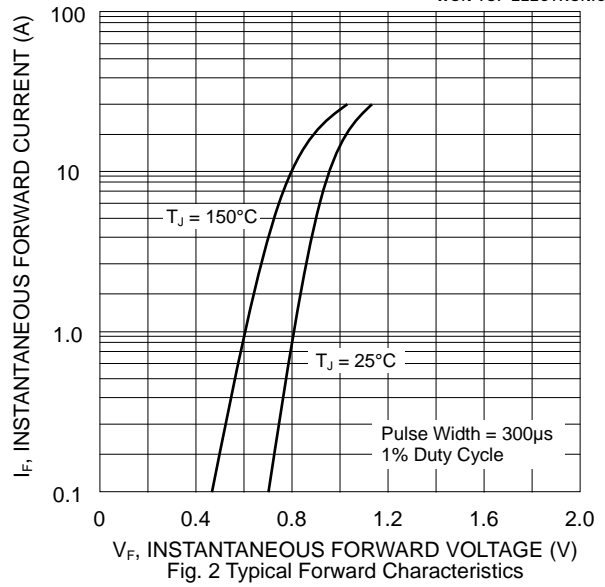
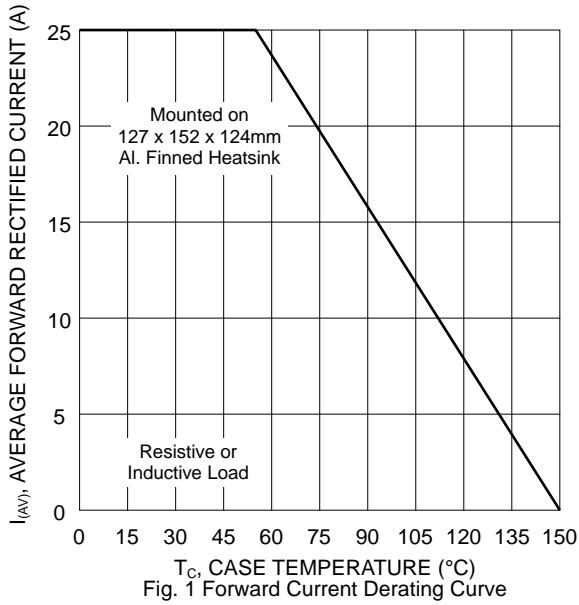
### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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

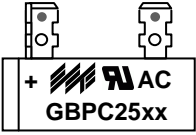

Characteristic	Symbol	GBPC25										Unit	
		00	01	02	04	06	08	10	12	14	16		
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>												V
Working Peak Reverse Voltage	V <sub>VRWM</sub>	50	100	200	400	600	800	1000	1200	1400	1600		
DC Blocking Voltage	V <sub>R</sub>												
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	840	980	1120	V	
Average Rectified Output Current @T <sub>C</sub> = 55°C	I <sub>O</sub>	25										A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	300										A	
Forward Voltage per leg @I <sub>F</sub> = 12.5A	V <sub>FM</sub>	1.1										V	
Peak Reverse Current @T <sub>C</sub> = 25°C At Rated DC Blocking Voltage @T <sub>C</sub> = 125°C	I <sub>RM</sub>	10 500										µA	
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t	375										A <sup>2</sup> s	
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	200										pF	
Typical Thermal Resistance (Note 2)	R <sub>JC</sub>	1.9										°C/W	
RMS Isolation Voltage, t = 1min	V <sub>ISO</sub>	2500										V	
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150										°C	

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case, mounted on 127 x 152 x 124mm Al. heatsink.



## MARKING INFORMATION

GBPC	GBPC-W
 <p>GBPC25xx = Device Number            xx = 00, 01, 02, 04, 06, 08, 10, 12, 14 or 16            Polarity = As Marked on Body</p>	 <p>GBPC25xxW = 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)
<b>GBPC</b>	195 x 195 x 40	50	405 x 205 x 240	500	12.0
<b>GBPC-W</b>	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
GBPC25xx	Square Bridge	50 Units/Box
GBPC25xxW	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 RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, GBPC2500-LF.**

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**WARNING:** DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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