

GBPC25 SERIES 4 Product Produc

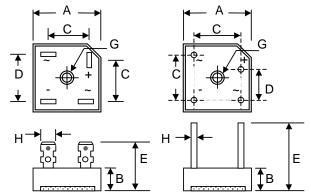
25A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

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



GBPC

GBPC-W

	GBPC Low Profile / Standard		GBPC-W Low Profile / Standard			
Dim	Min	Max	Min	Max		
Α	28.40	28.70	28.40	28.70		
В	7.50 / 10.97	8.50 / 11.23	7.50 / 10.97	8.50 / 11.23		
С	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					
н	6.35 T	ypical	0.97Ø	1.07Ø		
All Dimension in mm						

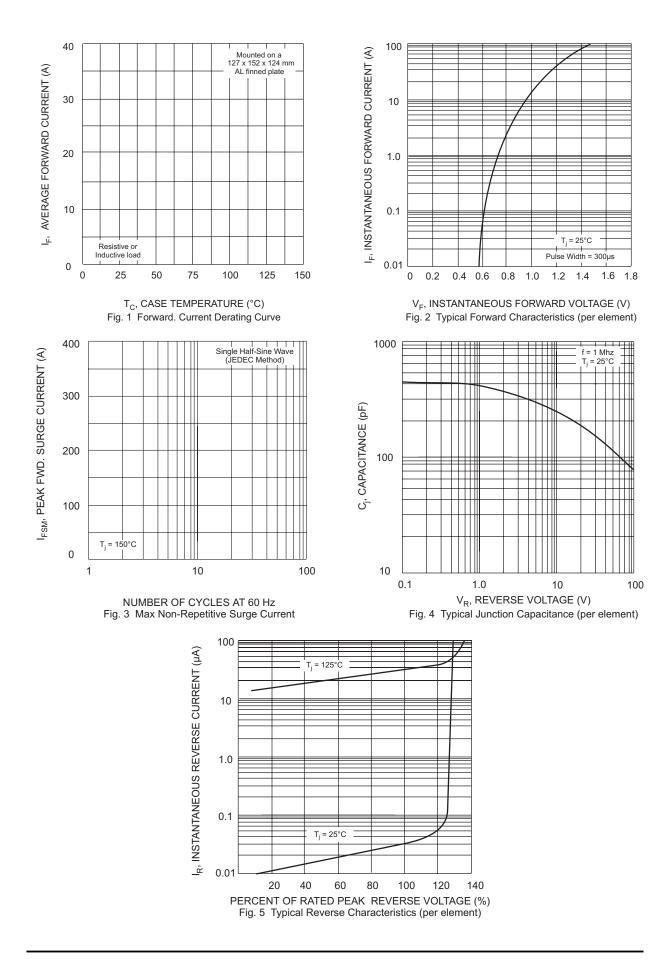
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

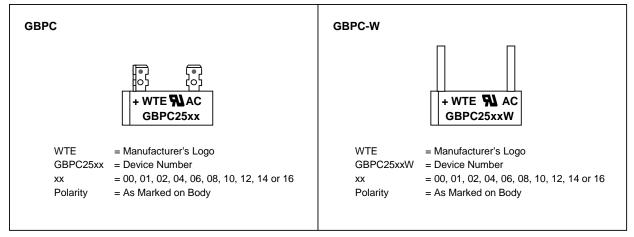
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Characteristic	Symbol	00	01	02	04	06	08	10	12	14	16	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	1200	1400	1600	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	980	1120	V
Average Rectified Output Current $@T_c = 50^{\circ}C$	lo	25							А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	 FSM	300						A				
Forward Voltage per leg $@I_F = 12.5A$	Vfm	1.1						V				
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 125^{\circ}C$	IRM	5.0 500							μA			
I ² t Rating for Fusing (t < 8.3ms)	l ² t	375							A²s			
Typical Junction Capacitance (Note 1)	Cj	300							pF			
Typical Thermal Resistance per leg (Note 2)	RθJC	1.9							°C/W			
RMS Isolation Voltage from Case to Leads	Viso	2500							V			
Operating and Storage Temperature Range	Тj, Tsтg	-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 152 x 124mm Al. finned plate.



MARKING INFORMATION



PACKAGING INFORMATION

ULK					
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

GBPC25 SERIES

Product No.	Package Type	Shipping Quantity			
GBPC2500	Square Bridge	50 Units/Box			
GBPC2500W	Square Bridge	50 Units/Box			
GBPC2501	Square Bridge	50 Units/Box			
GBPC2501W	Square Bridge	50 Units/Box			
GBPC2502	Square Bridge	50 Units/Box			
GBPC2502W	Square Bridge	50 Units/Box			
GBPC2504	Square Bridge	50 Units/Box			
GBPC2504W	Square Bridge	50 Units/Box			
GBPC2506	Square Bridge	50 Units/Box			
GBPC2506W	Square Bridge	50 Units/Box			
GBPC2508	Square Bridge	50 Units/Box			
GBPC2508W	Square Bridge	50 Units/Box			
GBPC2510	Square Bridge	50 Units/Box			
GBPC2510W	Square Bridge	50 Units/Box			
GBPC2512	Square Bridge	50 Units/Box			
GBPC2512W	Square Bridge	50 Units/Box			
GBPC2514	Square Bridge	50 Units/Box			
GBPC2514W	Square Bridge	50 Units/Box			
GBPC2516	Square Bridge	50 Units/Box			
GBPC2516W	Square Bridge	50 Units/Box			

ORDERING INFORMATION

1.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department. To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, GBPC2500-LF. 2.

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