

GBPC25 SERIES A

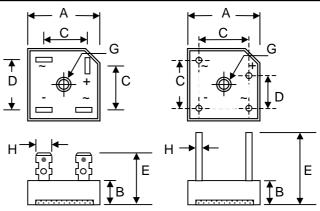
25A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

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

	GB Low Profile		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						

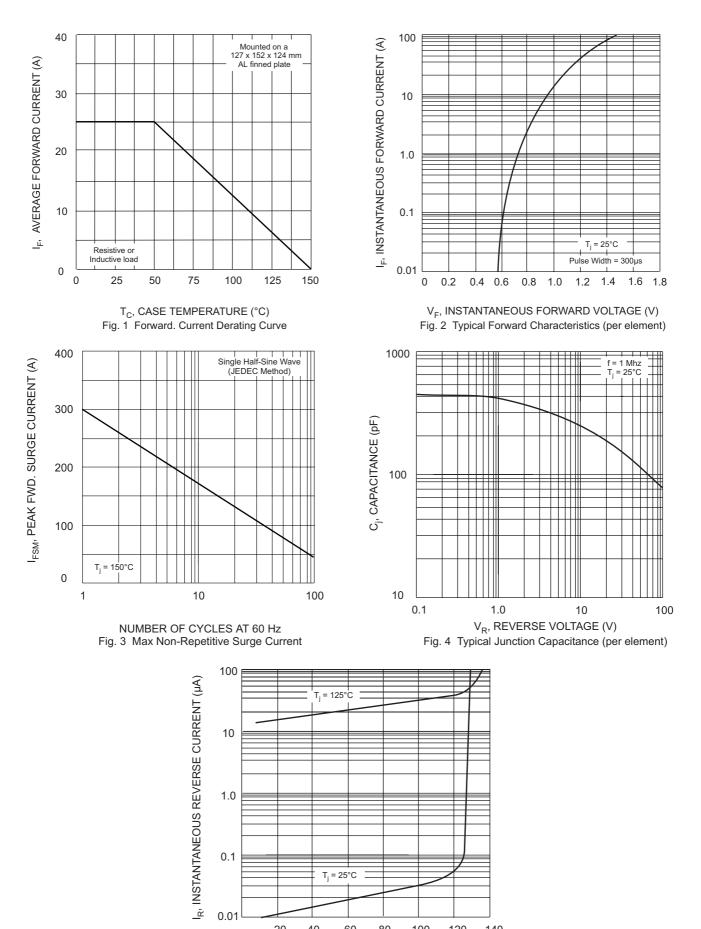
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

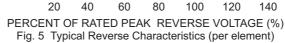
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Cumula al	GBPC25										
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° C	lo	25								А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	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	vi 5.0 500			μA							
I ² t Rating for Fusing (t < 8.3ms)	l ² t	375								A ² s		
Typical Junction Capacitance (Note 1)	Cj	300								pF		
Typical Thermal Resistance per leg (Note 2)	R∂JC	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			

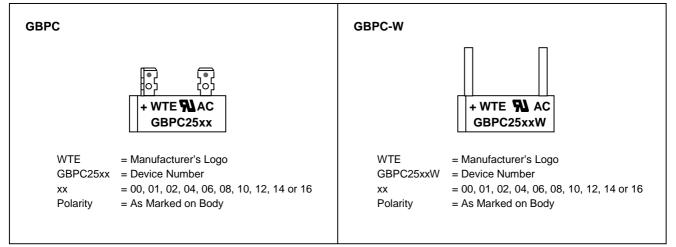
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Mounted on 127 x 152 x 124mm Al. finned plate.





MARKING INFORMATION



PACKAGING INFORMATION

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.

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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Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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