

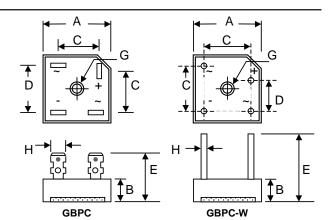
#### 10A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

#### **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



	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		
Е	19.08 / 22.86	21.58 / 25.40	30.50			
G	G Hole for #10 screw, 5.08Ø Nominal					
Н	6.35 T	ypical	0.97Ø	1.07Ø		
All Dimension in mm						

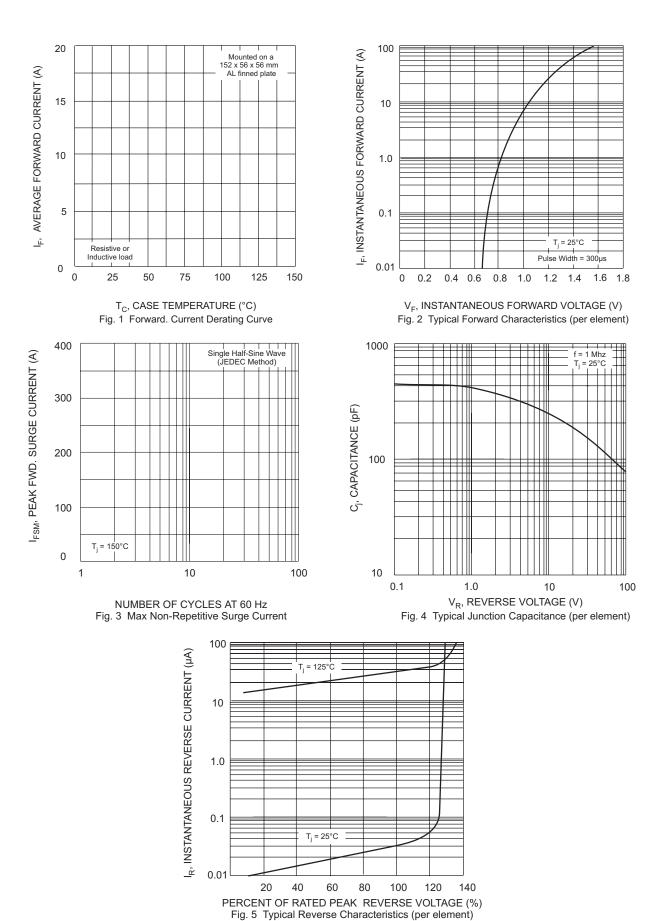
### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	Compleal	GBPC10								Unit		
Characteristic	Symbol	00	01	02	04	06	08	10	12	14	16	Onit
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	٧
Average Rectified Output Current @T <sub>C</sub> = 50°C	Ю	10						А				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	200							А			
Forward Voltage per leg @I <sub>F</sub> = 5.0A	VFM	1.1				V						
	lкм	5.0 500							μA			
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	160								A <sup>2</sup> s		
Typical Junction Capacitance (Note 1)	Cj	300							pF			
Typical Thermal Resistance per leg (Note 2)	R <sub>θ</sub> JC	2.0							°C/W			
RMS Isolation Voltage from Case to Leads	Viso	2500							V			
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150							°C			

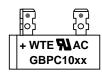
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Mounted on 152 x 56 x 56mm Al. finned plate.



# MARKING INFORMATION

# **GBPC**

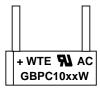


WTE = Manufacturer's Logo GBPC10xx = Device Number

xx = 00, 01, 02, 04, 06, 08, 10, 12, 14 or 16

Polarity = As Marked on Body

### **GBPC-W**



WTE = Manufacturer's Logo GBPC10xxW = Device Number

xx = 00, 01, 02, 04, 06, 08, 10, 12, 14 or 16

Polarity = As Marked on Body

#### **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
GBPC1000	Square Bridge	50 Units/Box
GBPC1000W	Square Bridge	50 Units/Box
GBPC1001	Square Bridge	50 Units/Box
GBPC1001W	Square Bridge	50 Units/Box
GBPC1002	Square Bridge	50 Units/Box
GBPC1002W	Square Bridge	50 Units/Box
GBPC1004	Square Bridge	50 Units/Box
GBPC1004W	Square Bridge	50 Units/Box
GBPC1006	Square Bridge	50 Units/Box
GBPC1006W	Square Bridge	50 Units/Box
GBPC1008	Square Bridge	50 Units/Box
GBPC1008W	Square Bridge	50 Units/Box
GBPC1010	Square Bridge	50 Units/Box
GBPC1010W	Square Bridge	50 Units/Box
GBPC1012	Square Bridge	50 Units/Box
GBPC1012W	Square Bridge	50 Units/Box
GBPC1014	Square Bridge	50 Units/Box
GBPC1014W	Square Bridge	50 Units/Box
GBPC1016	Square Bridge	50 Units/Box
GBPC1016W	Square Bridge	50 Units/Box

- 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, GBPC1000-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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