

# **GBPC35 SERIES**

# 35A GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIER



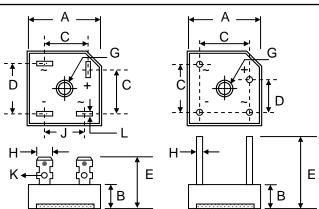
# **Features**

- **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



GBPC

GBPC-W

	GB Low Profile		GBPC-W Low Profile / Standard			
Dim	Min	Max	Min	Max		
Α	28.20	28.80	28.20	28.80		
В	7.50 / 10.77	8.50 / 11.23	7.50 / 10.77	8.50 / 11.23		
С	15.30	17.30	17.10	19.10		
D	17.10	19.10	10.40	12.40		
Е	19.00 / 21.50	—	30.50	—		
G	Hole for #10 screw, 5.08Ø Nominal					
Н	6.35 T	ypical	0.97Ø	1.07Ø		
J	13.20	15.20				
к	2.5Ø T	- Typical				
L	0.71	0.91				
All Dimension in mm						

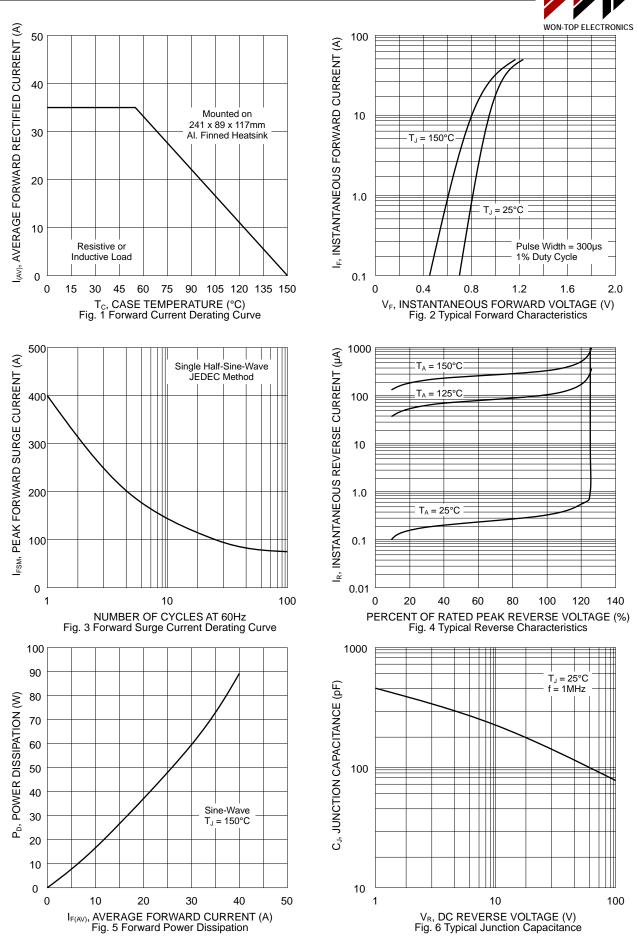
#### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	GBPC35										
Characteristic		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 $@T_c = 55^{\circ}C$	lo	35							А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	400						A				
Forward Voltage per leg $@I_F = 17.5A$	Vfm	1.1						V				
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 125^{\circ}C$	Irm	10 500						μA				
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	660							A <sup>2</sup> s			
Typical Junction Capacitance (Note 1)	CJ	300						pF				
Typical Thermal Resistance (Note 2)	R JC	1.4							°C/W			
RMS Isolation Voltage, t = 1min	Viso	2500							V			
Operating and Storage Temperature Range	TJ, TSTG	-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 241 x 89 x 117mm Al. heatsink.

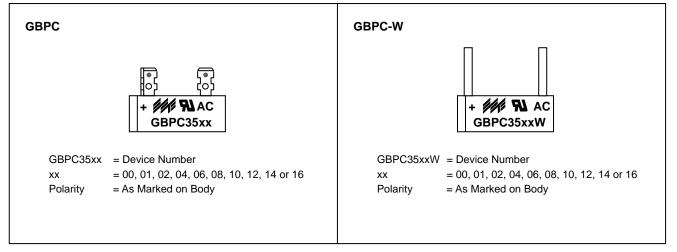
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# MARKING INFORMATION



# PACKAGING INFORMATION

ILK					
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			
GBPC35xx	Square Bridge	50 Units/Box			
GBPC35xxW	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 RoHS / Lead Free version (with Lead Free finish), add "-LF"

 To order RoHS / Lead Free version (with Lead Free finish), add "-LI suffix to part number above. For example, GBPC3500-LF.

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