

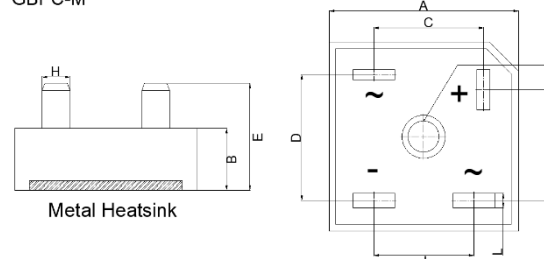
GBPC35 SERIES

35A Glass Passivated Single Phase Bridge Rectifiers

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

GBPC-M



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: 20.06grams (GBPC-M);
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**

GBPC-M Low Profile / Standard		
Dim	Min	Max
A	28.20	28.80
B	7.65	8.15
C	15.30	17.30
D	17.10	19.10
E	12.65	12.85
G	Hole for #10 screw, 5.08Ø Nominal	
H	4.0 Typical	
J	13.20	15.20
L	0.72	0.82
All Dimension in mm		

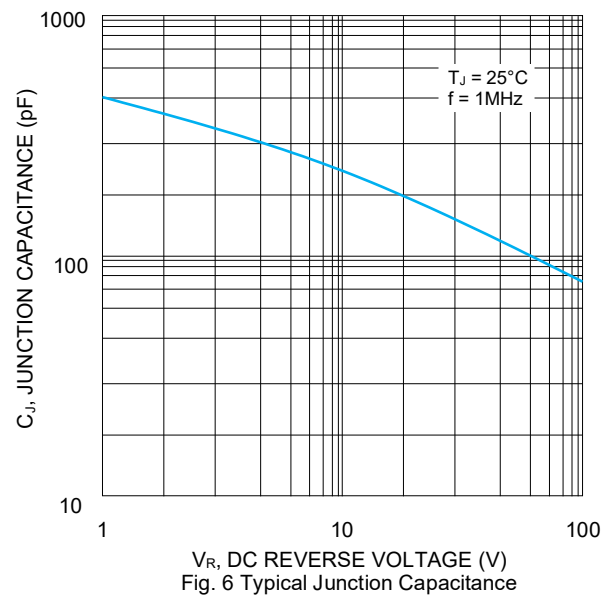
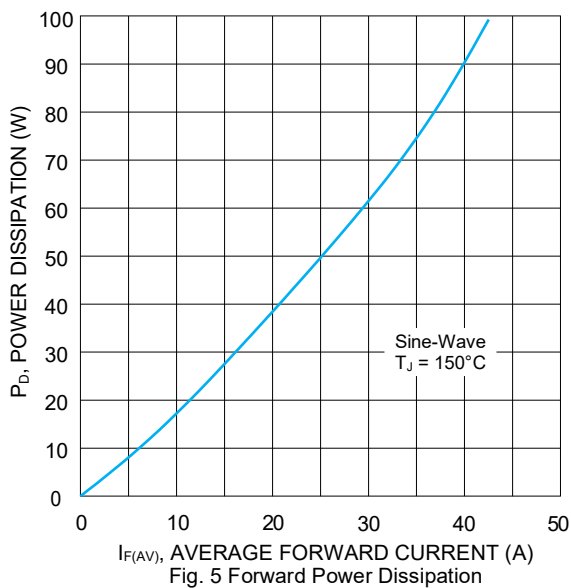
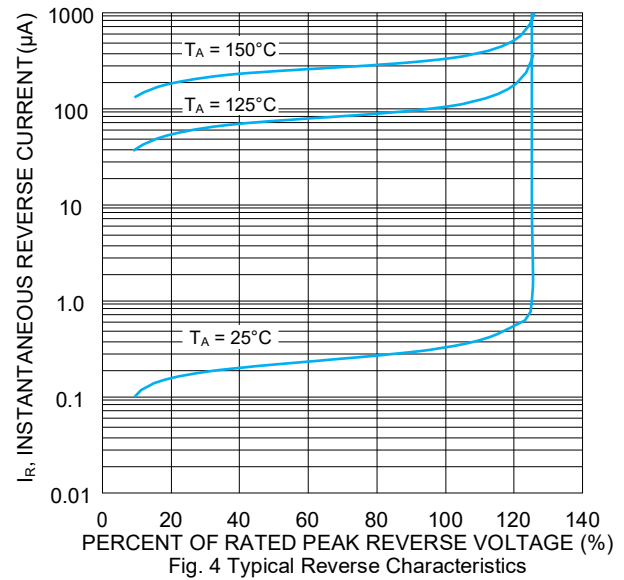
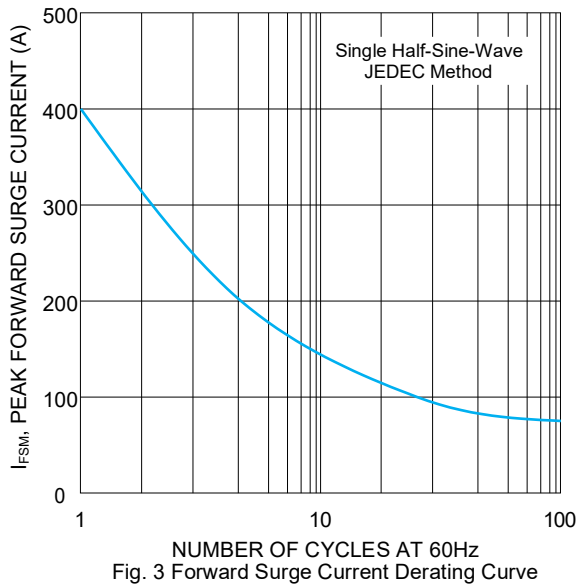
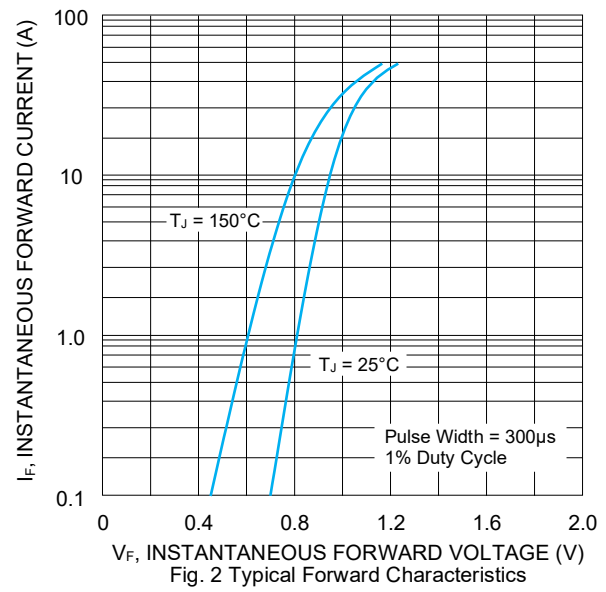
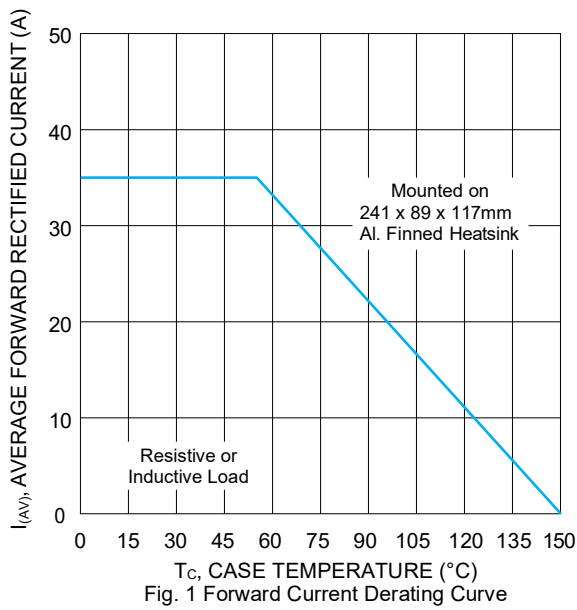
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

Characteristic	Symbol	GBPC35										Unit
		00	01	02	04	06	08	10	12	14	16	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	1200	1400	1600	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	840	980	1120	V
Average Rectified Output Current @T _C = 55°C	I _O	35										A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	400										A
Forward Voltage per leg @I _F = 17.5A	V _{FM}	1.1										V
Peak Reverse Current @T _C = 25°C At Rated DC Blocking Voltage @T _C = 125°C	I _{RM}	10 500										µA
I ² t Rating for Fusing (t < 8.3ms)	I ² t	660										A ² s
Typical Junction Capacitance (Note 1)	C _J	300										pF
Typical Thermal Resistance (Note 2)	R _{θJC}	1.4										°C/W
RMS Isolation Voltage, t = 1min	V _{ISO}	2500										V
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150										°C

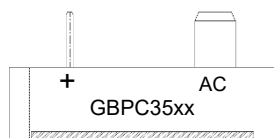
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case, mounted on 241 x 89 x 117mm Al. heatsink.



MARKING INFORMATION

GBPC-M



Metal Heatsink

GBPC35xx = 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-M	210 x 210 x 40	50	430 x 215 x 220	500	12.0

Note: 1. Paper box, white or brown color.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
GBPC35xx	Square Bridge	50 Units/Box

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

Please Read Carefully

Thank you for using or about to use our company's products. We suggest that you carefully read this material before use.

- Our company strives to provide users with higher quality products and services.
- Jiangsu POWERSi Microelectronics Co., Ltd. will periodically optimize its products and corresponding specifications, and may not be able to notify you in a timely manner. Please download the latest version regularly.
- Jiangsu POWERSi Microelectronics Co., Ltd. assumes no responsibility or risk for any use of its products for special purposes.
- Jiangsu POWERSi Microelectronics Co., Ltd. holds patent rights for its own products.
- Any semiconductor product has a certain possibility of failure or malfunction under specific conditions. The buyer is requested to comply with safety standards and take safety measures when using products from Jiangsu POWERSi Microelectronics Co., Ltd. for system design and complete machine manufacturing, in order to avoid situations that may cause personal injury or property damage!