

GBPC35S SERIES



RoHS RoHS

35A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Features

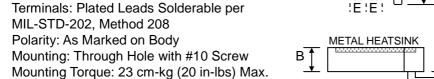
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability

Mechanical Data

- High Surge Current Capability
- Designed for Saving Mounting Space
- Recognized File # E157705

A D

KBPC-S					
Dim	Min	Max			
Α	28.40	28.70			
В	10.97	11.23			
C	1	21.00			
D	1	25.00			
Е	5.10	1			
G	1.20 Ø Typical				
Н	3.05	3.60			
J	5.08 Ø Nominal				
All Dimensions in mm					

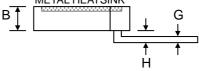


Weight: 21 grams (approx.)

Marking: Type Number

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

Case: KBPC-S, Molded Plastic with Heatsink Internally Mounted in the Bridge Encapsulation



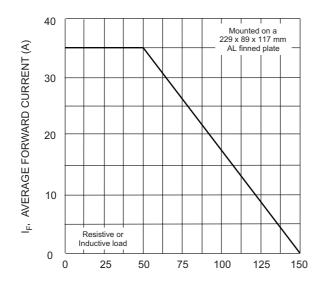
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

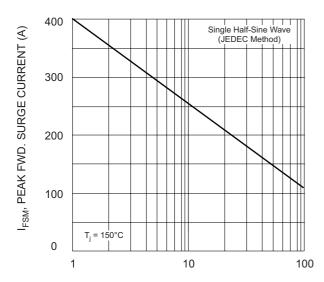
Characteristic	Symbol	GBPC35								Unit		
Characteristic	Symbol	008	01S	02S	04S	06S	08S	10S	12S	148	16S	Onit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	1200	1400	1600	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	980	1120	V
Average Rectified Output Current @T _C = 50°C	lo	35						Α				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	400							А			
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 $@T_C = 125^{\circ}C$	lгм	5.0 500						μΑ				
I ² t Rating for Fusing (t < 8.3ms)	l ² t	660						A ² s				
Typical Junction Capacitance (Note 1)	Cj	300						pF				
Typical Thermal Resistance per leg (Note 2)	R ⊕ JC	1.4							°C/W			
RMS Isolation Voltage from Case to Leads	Viso	2500							V			
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150						°C				

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

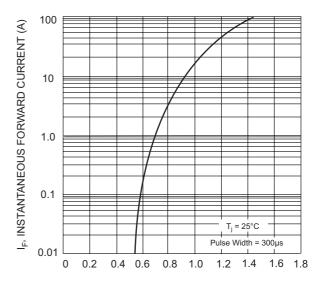
2. Mounted on 229 x 89 x 117mm Al. finned plate.



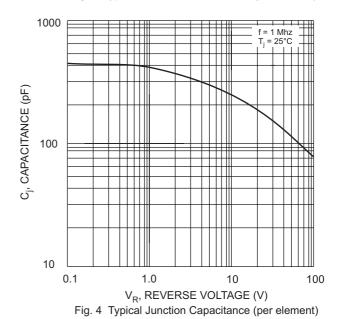
 $T_{\rm C}$, CASE TEMPERATURE (°C) Fig. 1 Forward. Current Derating Curve



NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Surge Current



 V_{F} , INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics (per element)



100

T_j = 125°C

T_j = 125°C

REVERY

0.01

20 40 60 80 100 120 140

PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

Fig. 5 Typical Reverse Characteristics (per element)

MARKING INFORMATION

WTE SUBPC35xxS

WTE = Manufacturer's Logo GBPC35xxS = Device Number

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

Polarity = As Marked on Body

PACKAGING INFORMATION

BULK

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)		
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)			
195 x 195 x 40	80	405 x 205 x 240	800	17.0		

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

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
GBPC3500S	SIL Bridge	80 Units/Box
GBPC3501S	SIL Bridge	80 Units/Box
GBPC3502S	SIL Bridge	80 Units/Box
GBPC3504S	SIL Bridge	80 Units/Box
GBPC3506S	SIL Bridge	80 Units/Box
GBPC3508S	SIL Bridge	80 Units/Box
GBPC3510S	SIL Bridge	80 Units/Box
GBPC3512S	SIL Bridge	80 Units/Box
GBPC3514S	SIL Bridge	80 Units/Box
GBPC3516S	SIL Bridge	80 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, GBPC3500S-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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