

GBPC10S SERIES

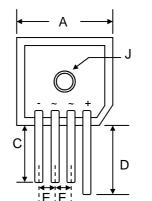
10A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Designed for Saving Mounting Space
- Recognized File # E157705

Mechanical Data

- Case: KBPC-S, Molded Plastic with Heatsink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Mounting: Through Hole with #10 Screw
- Mounting Torque: 23 cm-kg (20 in-lbs) Max.
- Weight: 21 grams (approx.)
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



METAL HEATSINK

Н

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

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

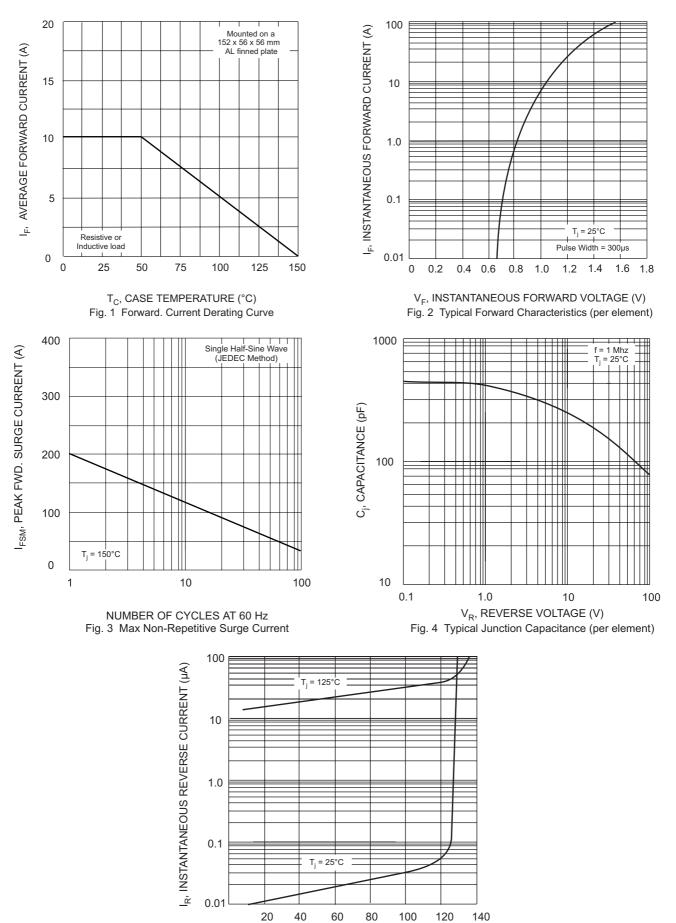
В

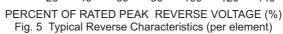
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	GBPC10							Unit				
Characteristic	Symbol	00S	01S	02S	04S	06S	08S	10S	12S	14S	16S	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 $@T_c = 50^{\circ}C$	lo	10						А				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200						A				
Forward Voltage per leg $@I_F = 5.0A$	Vfm	1.1							V			
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 125^{\circ}C$	Iгм	5.0 500						μA				
I ² t Rating for Fusing (t < 8.3ms)	l ² t	160						A ² s				
Typical Junction Capacitance (Note 1)	Cj	300						pF				
Typical Thermal Resistance per leg (Note 2)	R∉JC	2.0							°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 152 x 56 x 56mm Al. finned plate.





MARKING INFORMATION



 WTE
 = Manufacturer's Logo

 GBPC10xxS
 = 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
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
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
GBPC1000S	SIL Bridge	80 Units/Box
GBPC1001S	SIL Bridge	80 Units/Box
GBPC1002S	SIL Bridge	80 Units/Box
GBPC1004S	SIL Bridge	80 Units/Box
GBPC1006S	SIL Bridge	80 Units/Box
GBPC1008S	SIL Bridge	80 Units/Box
GBPC1010S	SIL Bridge	80 Units/Box
GBPC1012S	SIL Bridge	80 Units/Box
GBPC1014S	SIL Bridge	80 Units/Box
GBPC1016S	SIL Bridge	80 Units/Box

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

2. To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, GBPC1000S-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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