



#### 25A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

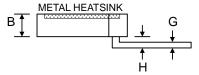
#### **Features**

- 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

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					

## **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



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

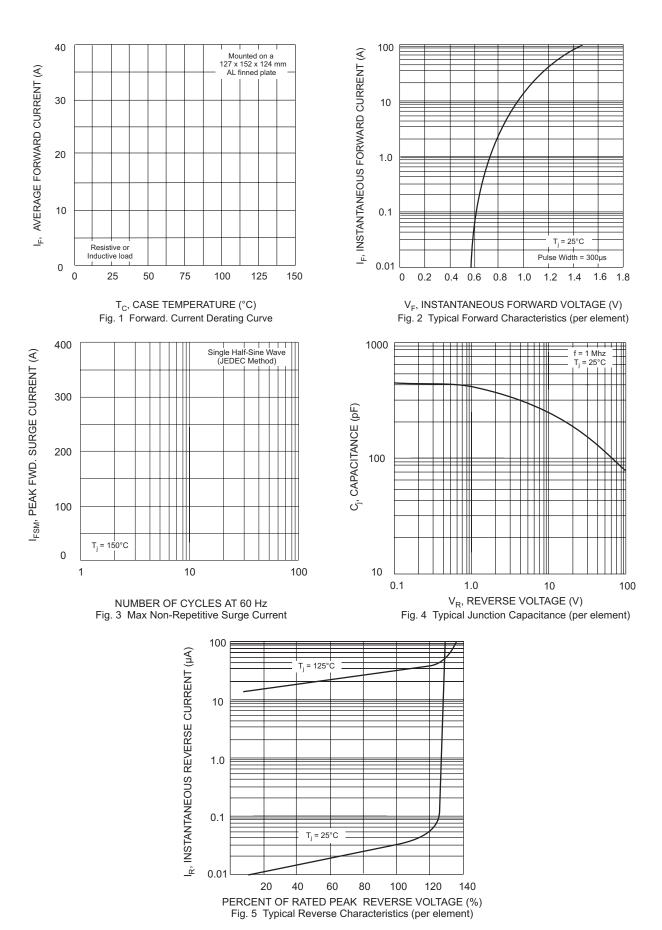
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	GBPC25							Unit			
Characteristic	Syllibol	008	01S	02S	04S	06S	08S	10S	12S	148	16S	Oilit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	1200	1400	1600	٧
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	lo	25						Α				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	300						Α				
Forward Voltage per leg $@I_F = 12.5A$	VFM					1	.1					٧
	lгм						.0 00					μΑ
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	375						A <sup>2</sup> s				
Typical Junction Capacitance (Note 1)	Cj	300						pF				
Typical Thermal Resistance per leg (Note 2)	RθJC	1.9						°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 127 x 152 x 124mm Al. finned plate.

Downloaded from Elcodis.com electronic components distributor



# MARKING INFORMATION



WTE = Manufacturer's Logo GBPC25xxS = 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 L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)		
195 x 195 x 40	80	405 x 205 x 240	800	17.0		

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

## **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
GBPC2500S	SIL Bridge	80 Units/Box
GBPC2501S	SIL Bridge	80 Units/Box
GBPC2502S	SIL Bridge	80 Units/Box
GBPC2504S	SIL Bridge	80 Units/Box
GBPC2506S	SIL Bridge	80 Units/Box
GBPC2508S	SIL Bridge	80 Units/Box
GBPC2510S	SIL Bridge	80 Units/Box
GBPC2512S	SIL Bridge	80 Units/Box
GBPC2514S	SIL Bridge	80 Units/Box
GBPC2516S	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, GBPC2500S-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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