





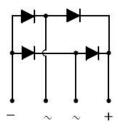
GBPC25005 THRU GBPC2510 SINGLE PHASE 25 AMP GLASS PASSIVATED BRIDGE RECTIFIER



Features

- · Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0
- This is a Pb Free device
- All SMC parts are traceable to the wafer lot
- · Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- · Case: GBPC, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Lead Free: For RoHS / Lead Free Version

Maximum Ratings: @T_A=25°C unless otherwise specified

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

Type number	Symbol	GBPC 25005	GBPC 2501	GBPC 2502	GBPC 2504	GBPC 2506	GBPC 2508	GBPC 2510	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ T _A =55 °C	Io	25						Α	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	300					А		

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Electrical Characteristics:@T_A=25°C unless otherwise specified

Type number	Symbol	GBPC 25005	GBPC 2501	GBPC 2502	GBPC 2504	GBPC 2506	GBPC 2508	GBPC 2510	Units
Forward Voltage per element @I _F =12.5A	VF	1.1						V	
Peak Reverse Current @T _A =25°C At Rated DC Blocking Voltage @T _A =125°C	I _R	I _R 5 500					μА		
Typical Junction Capacitance (Note 2)	C₃	300					pF		

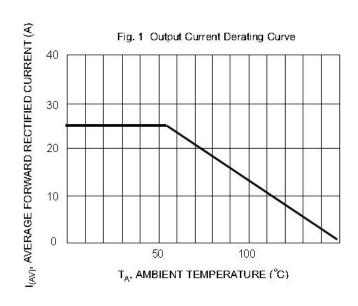
^{*} Pulse width < 300 μ s, duty cycle < 2%

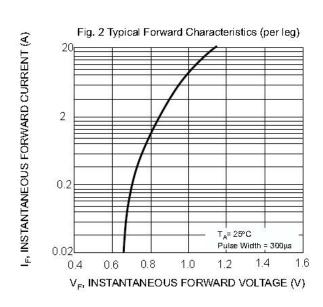
Thermal-Mechanical Specifications:@TA=25°C unless otherwise specified

Type number	Symbol	GBPC 25005	GBPC 2501	GBPC 2502	GBPC 2504	GBPC 2506	GBPC 2508	GBPC 2510	Units
Typical Thermal Resistance Junction to Lead	R _{θJL}	2.2							
Junction Temperature	TJ	-55 to +150					°C		
Storage Temperature Range	T _{STG}	-55 to +150					°C		

Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad. 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

Ratings and Characteristics Curves



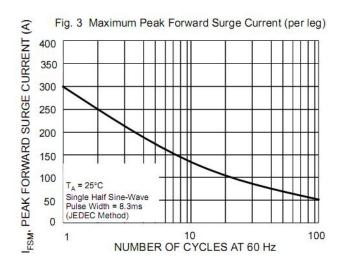


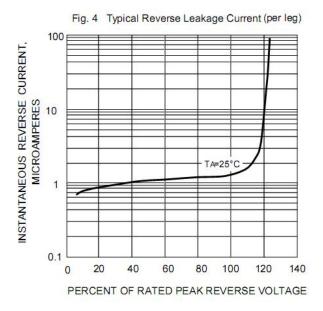
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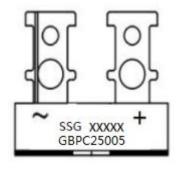


Ordering Information

Device Package		Plating	Shipping		
GBPC25005-GBPC2510	GBPC(Pb-Free)	Pure Sn	50pcs / box		

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where XXXXX is YYWWL

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

 GBPC25005
 = Type Number

Cautions: Molding resin Epoxy resin UL:94V-0

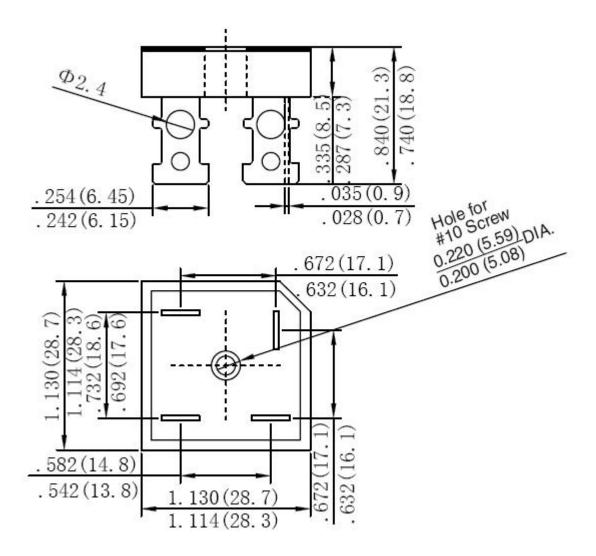
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Mechanical Dimensions GBPC (Inches/Millimeters)



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