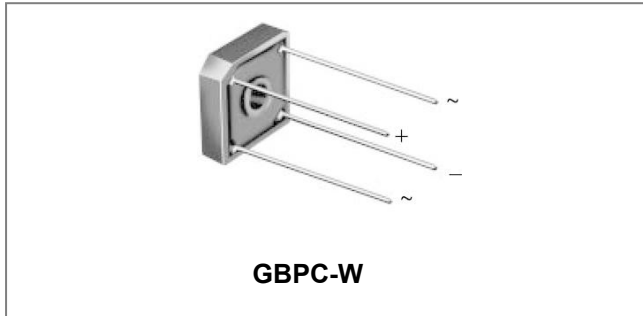


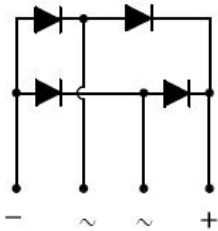
GBPC35005W THRU GBPC3510W SINGLE PHASE 35 AMP GLASS PASSIVATED BRIDGE RECTIFIER



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-W, 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: @ $T_A=25^\circ\text{C}$ unless otherwise specified

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

Type number	Symbol	GBPC 35005W	GBPC 3501W	GBPC 3502W	GBPC 3504W	GBPC 3506W	GBPC 3508W	GBPC 3510W	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) @ $T_A=55^\circ\text{C}$	I_o	35							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	400							A

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

Type number	Symbol	GBPC 35005W	GBPC 3501W	GBPC 3502W	GBPC 3504W	GBPC 3506W	GBPC 3508W	GBPC 3510W	Units	
Forward Voltage per element @I _F =17.5A	V _F	1.1								V
Peak Reverse Current @T _A =25°C At Rated DC Blocking Voltage @T _A =125°C	I _R	5				500				μA
Typical Junction Capacitance (Note 2)	C _J	300								pF

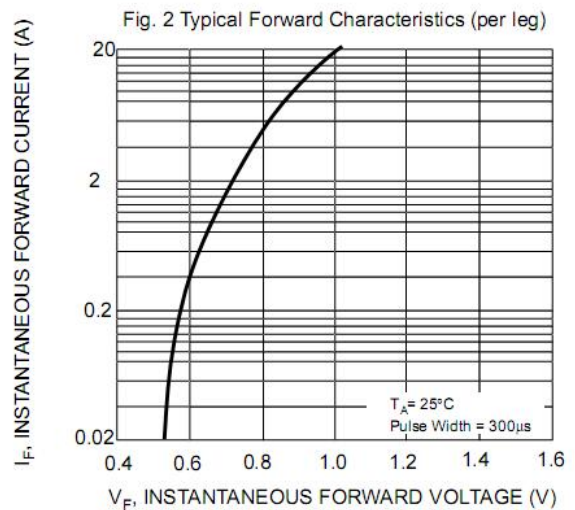
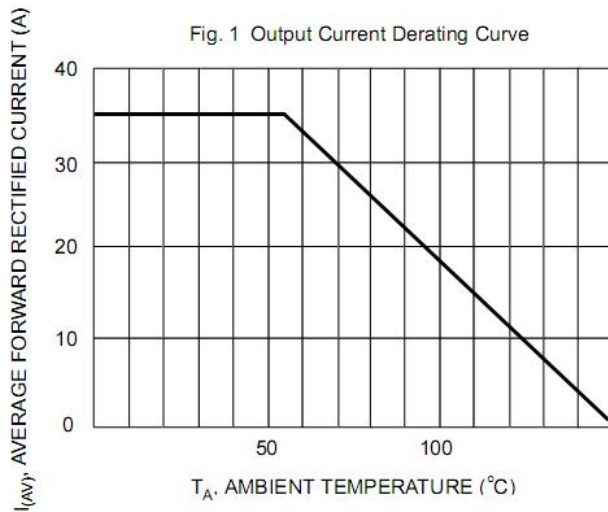
* Pulse width < 300 μs, duty cycle < 2%

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

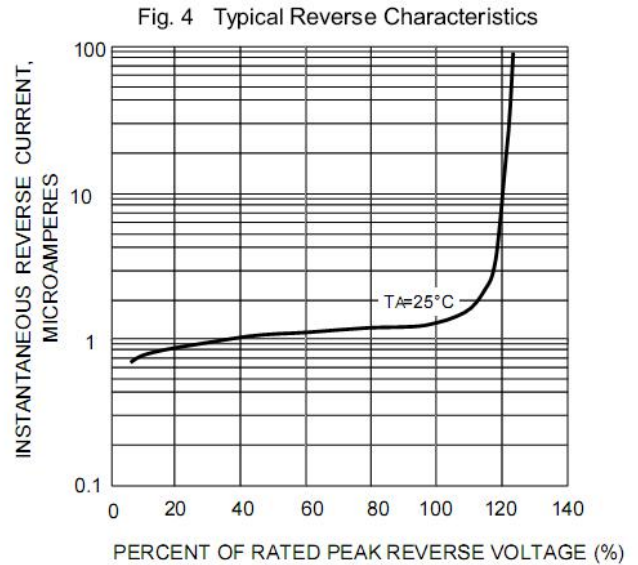
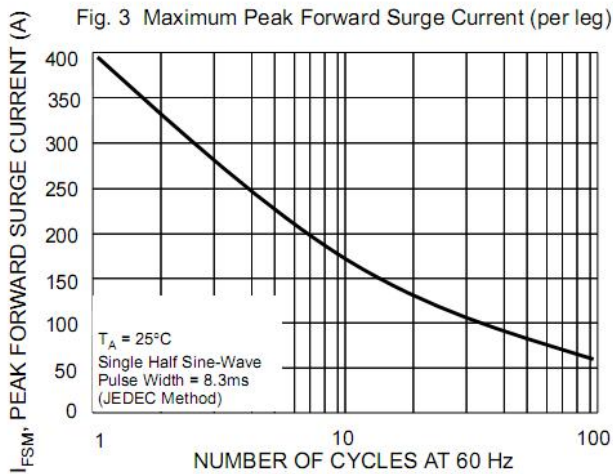
Type number	Symbol	GBPC 35005W	GBPC 3501W	GBPC 3502W	GBPC 3504W	GBPC 3506W	GBPC 3508W	GBPC 3510W	Units	
Typical Thermal Resistance Junction to Lead	R _{θJL}	2.2								
Junction Temperature	T _J	-55 to +150								°C
Storage Temperature Range	T _{STG}	-55 to +150								°C

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



Technical Data
Data Sheet N1923, Rev. A

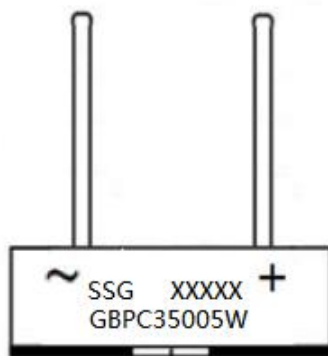


Ordering Information

Device	Package	Plating	Shipping
GBPC35005W-GBPC3510W	GBPC-W(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

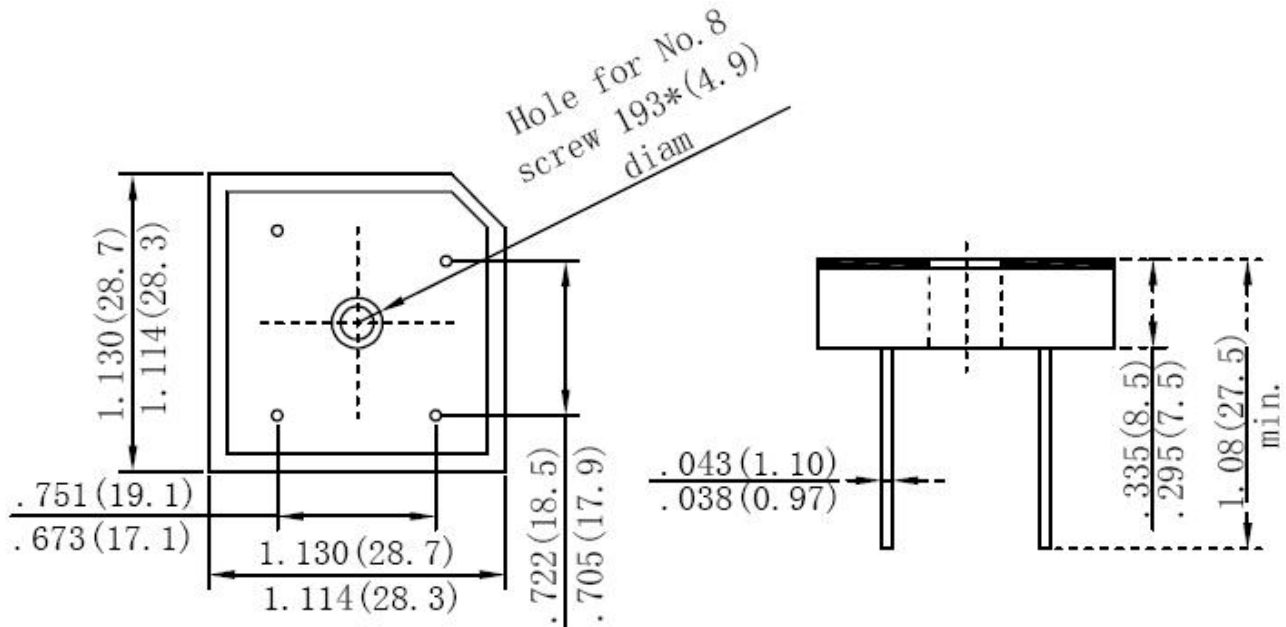


Where XXXXX is YYWWL

SSG = SSG
 YY = Year
 WW = Week
 L = Lot Number
 GBPC35005W = Type Number

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

Mechanical Dimensions GBPC-W (Inches/Millimeters)



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