

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Single Phase Glass Passivated Silicon Bridge Rectifier

 $V_{RRM} = 600 \text{ V} - 1000 \text{ V}$ $I_{O} = 25 \text{ A}$

Features

- Integrally molded heat sink provides low thermal resistance for maximum heat dissipation
- · High surge current capability
- Universal 3-way terminals: snap on, wire-around, or P.C board mounting
- High temperature soldering guaranteed: 260°C/ 10 seconds at 5 lbs (2.3 kg) tension
- Not ESD Sensitive

Mechanical Data

Case: Molded plastic with heat sink integrally mounted in the bridge encapsulation

Terminals: Either nickel plated 0.25". Faston lugs or copper leads

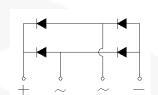
0.040" diameter.

Polarity: Polarrity symbols marked on the body

Mounting position: Bolt down on heat-sink with silicone thermal

compound between bridge and mounting surface

Weight: 15 grams or 0.53 ounces Mounting torque: 20 inch-lbs max









Maximum ratings at Tc = 25 °C, unless otherwise specified (GBPCXXXXT uses GBPC-T package while GBPCXXXXW uses GBPC-W package)

Parameter	Symbol Conditions	GBPC2506T/W	GBPC2508T/W	GBPC2510T/W	Unit
Repetitive peak reverse volta	age V _{RRM}	600	800	1000	V
RMS reverse voltage	V_{RMS}	420	560	700	V
DC blocking voltage	V_{DC}	600	800	1000	V
Operating temperature	T _j	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}	-55 to 150	-55 to 150	-55 to 150	°C

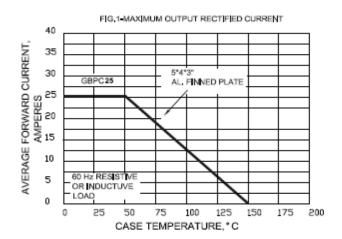
Electrical characteristics at Tc = 25 °C, unless otherwise specified

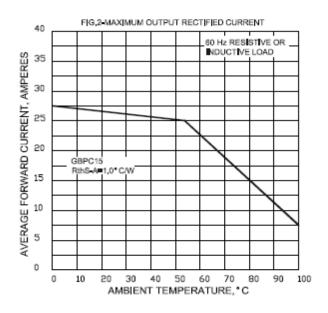
Single phase, half sine wave, 60 Hz, resistive or inductive load

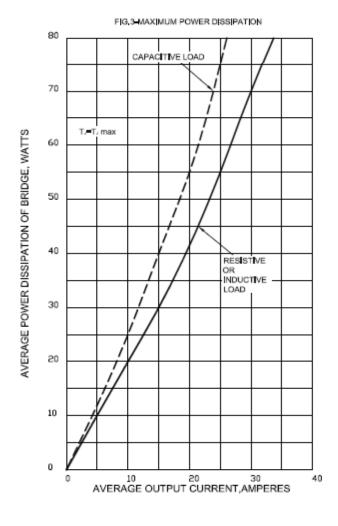
For capacitive load derate current by 20%

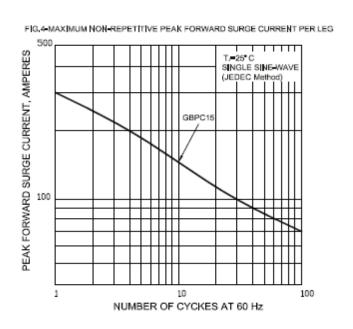
Parameter	Symbol	Conditions	GBPC2506T/W	GBPC2508T/W	GBPC2510T/W	Unit
Maximum average forward rectified current	I _O	T _c = 50 °C	25.0	25.0	25.0	Α
Peak forward surge current	I _{FSM}	single sine-wave	300	300	300	Α
Maximum instantaneous forward voltage drop per leg	V_{F}	I _F = 12.5 A	1.1	1.1	1.1	V
Maximum DC reverse current at	I _R	T _a = 25 °C	5	5	5	μA
rated DC blocking voltage per leg		T _a = 125 °C	500	500	500	
Rating for fusing	l ² t	1 ms < $t_{\rm m}$ < 8.3 ms	375	375	375	A ² sec
RMS isolation voltage from case to leads	V_{ISO}		2500	2500	2500	V
Typical junction capacitance	C _j		300	300	300	pF
Typical thermal resistance	$R_{\Theta JC}$		1.9	1.9	1.9	°C/W



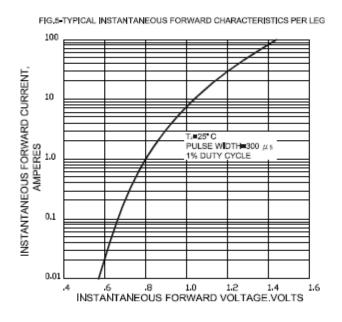


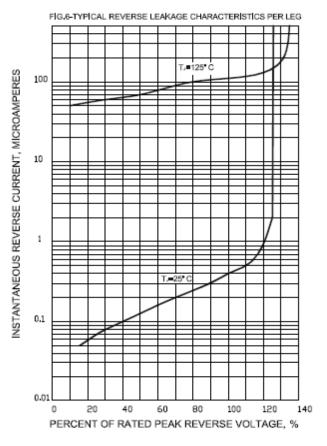


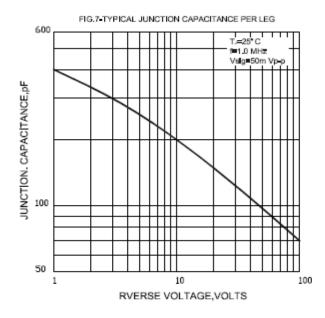


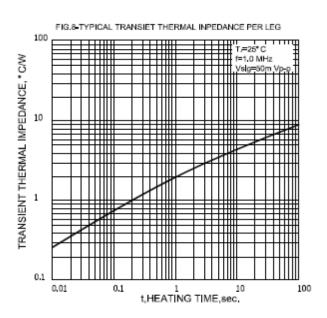








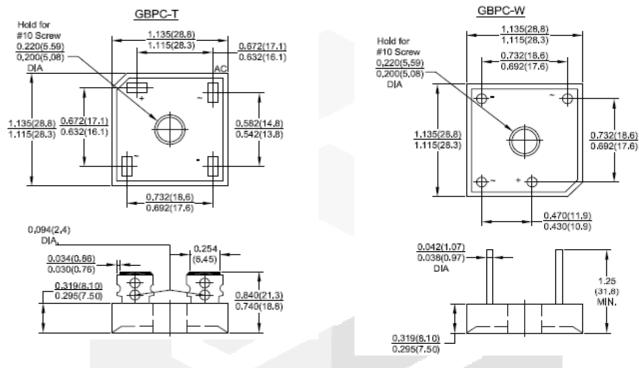






Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



Dimensions in inches and (millimeters)

