



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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GBPC15005-G Thru. GBPC5010-G Series

Reverse Voltage: 50 to 1000V

Forward Current: 15/25/35/50A

RoHS Device

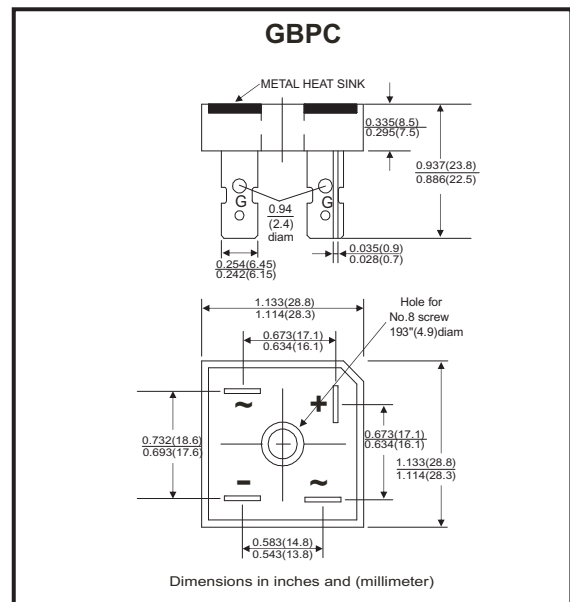


Features

- Surge overload -300~450 Amperes peak.
- Low forward voltage drop.
- Electrically isolated base -2000 Volts.
- Solderable 0.25" Fast ON terminals.
- UL recognized file # E349301

Mechanical Data

- Polarity: As marked on Body.
- Mounting position: Any.
- Weight: 16.57 grams (approx.).



Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave ,60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Parameter	Symbol	GBPC-G	GBPC-G	GBPC-G	GBPC-G	GBPC-G	GBPC-G	GBPC-G	Unit
		15005	1501	1502	1504	1506	1508	1510	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V _{RRM}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V

Parameter	Symbol	GBPC15	GBPC25	GBPC35	GBPC50	Unit
Maximum Average Forward Rectified Output Current @Tc=55°C	I _(AV)	15	25	35	50	A
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load	I _{FSM}	300	350	400	450	A
Maximum Forward Voltage Drop Per Element at 7.5/12.5/17.5/25.0A Peak	V _F	1.1				V
Maximum Reverse Current at rate DC Blocking Voltage Per Element @ T _J =25°C	I _R	10.0				µA
Operating Temperature Range	T _J	-55 to +150				°C
Storage Temperature Range	T _{STG}	-55 to +150				°C

Company reserves the right to improve product design , functions and reliability without notice.

REV: C

Rating and Characteristics Curves (GBPC1005-G Thru. GBPC5010-G Series)

Fig.1 - Derating Curve Output Rectified Current

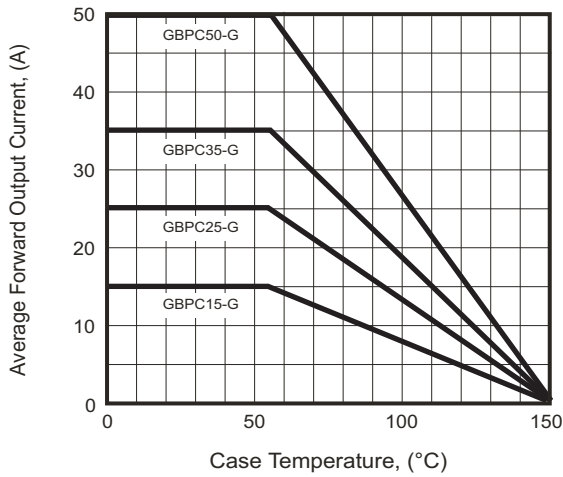


Fig.2 - Typical Forward Characteristics

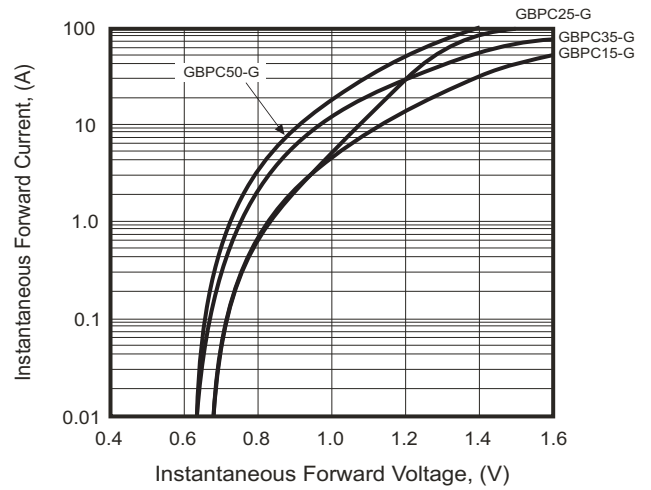


Fig.3 - Maximum Forward Surge Current

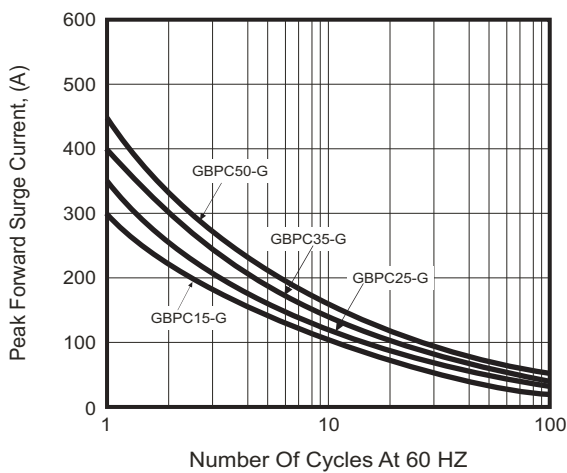
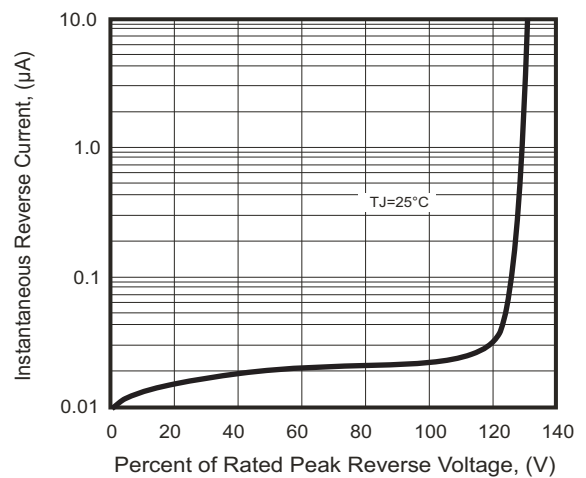
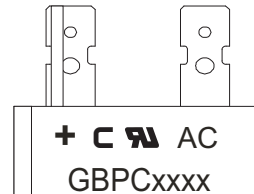


Fig.4 - Typical Reverse Characteristics



Marking Code

Part Number	Marking code
GBPC15005-G	GBPC15005
GBPC25005-G	GBPC25005
GBPC35005-G	GBPC35005
GBPC50005-G	GBPC50005
GBPC1501-G	GBPC1501
GBPC2501-G	GBPC2501
GBPC3501-G	GBPC3501
GBPC5001-G	GBPC5001
GBPC1502-G	GBPC1502
GBPC2502-G	GBPC2502
GBPC3502-G	GBPC3502
GBPC5002-G	GBPC5002
GBPC1504-G	GBPC1504
GBPC2504-G	GBPC2504
GBPC3504-G	GBPC3504
GBPC5004-G	GBPC5004
GBPC1506-G	GBPC1506
GBPC2506-G	GBPC2506
GBPC3506-G	GBPC3506
GBPC5006-G	GBPC5006
GBPC1508-G	GBPC1508
GBPC2508-G	GBPC2508
GBPC3508-G	GBPC3508
GBPC5008-G	GBPC5008
GBPC1510-G	GBPC1510
GBPC2510-G	GBPC2510
GBPC3510-G	GBPC3510
GBPC5010-G	GBPC5010



XXXXX / XXXX = Product type marking code
C = Compchip Logo

Standard Packaging

Case Type	BULK PACK	
	BOX (pcs)	CARTON (pcs)
GBPC	50	500