

GBPC25005-G Thru. GBPC5010-G Series

Reverse Voltage: 50 to 1000V

Forward Current: 25/35/50A

RoHS Device

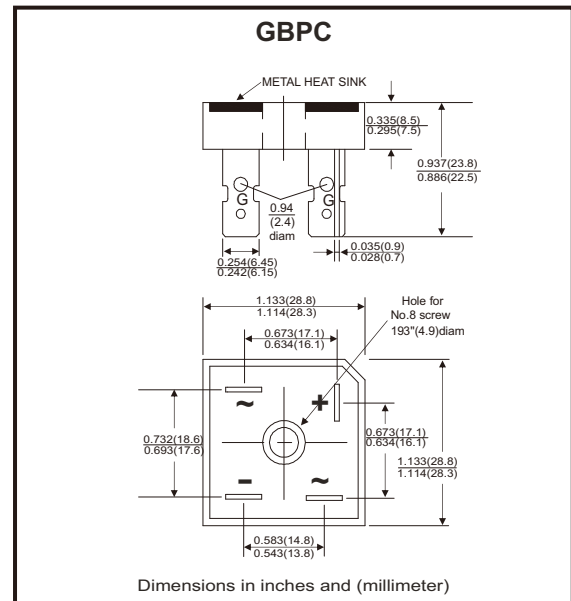


Features

- Surge overload -350~450 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
		25005	2501	2502	2504	2506	2508	2510	
		35005	3501	3502	3504	3506	3508	3510	
		50005	5001	5002	5004	5006	5008	5010	
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	GBPC25	GBPC35	GBPC50	Unit
Maximum average forward rectified output current @ $T_c=55^\circ\text{C}$	$I_{(AV)}$	25	35	50	A
Peak forward surge current, 8.3ms single half sine-wave, superimposed on rated load	I_{FSM}	350	400	450	A
Maximum forward voltage drop per element at 12.5/17.5/25.0A peak	V_F	1.1			V
Maximum reverse current at rate DC blocking voltage per element @ $T_J=25^\circ\text{C}$	I_R	10.0			μA
Operating temperature range	T_J	-55 to +150			$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150			$^\circ\text{C}$

Rating and Characteristics Curves (GBPC25005-G Thru. GBPC5010-G Series)

Fig.1 - Derating Curve Output Rectified Current

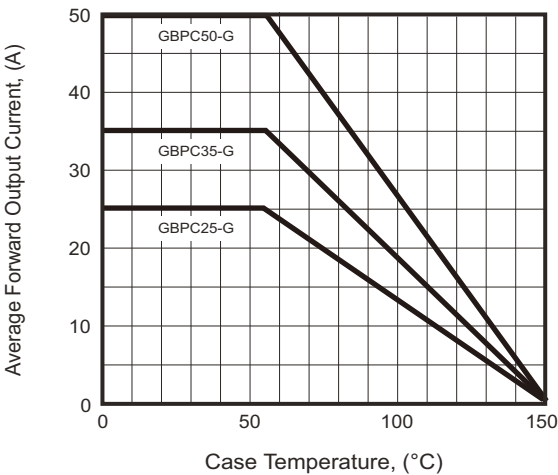


Fig.2 - Typical Forward Characteristics

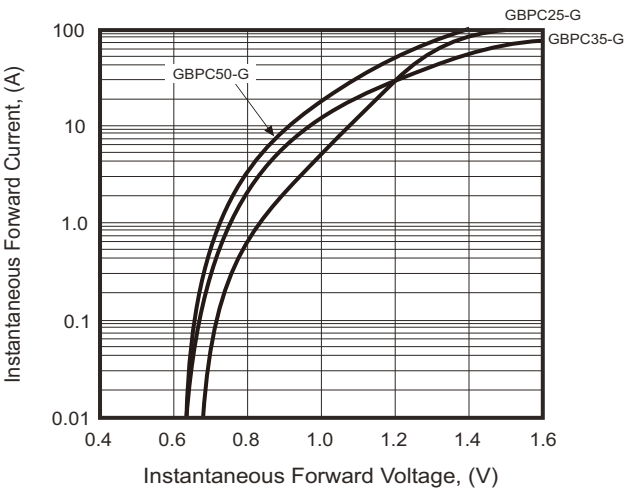


Fig.3 - Maximum Forward Surge Current

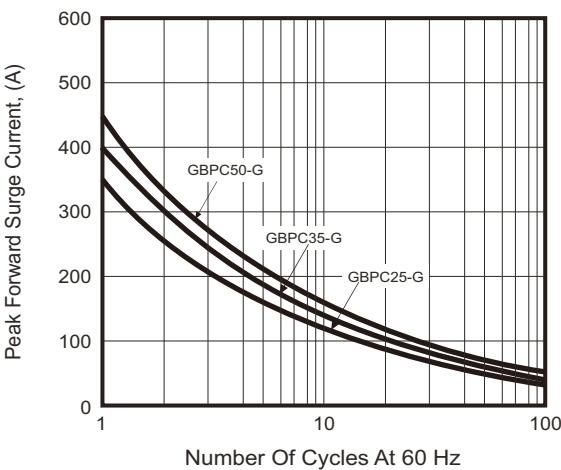
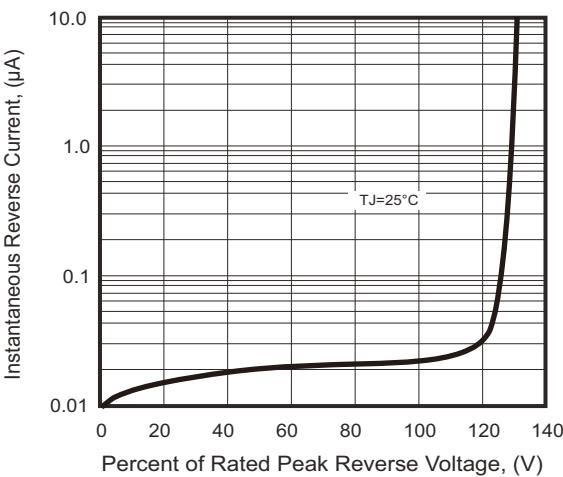
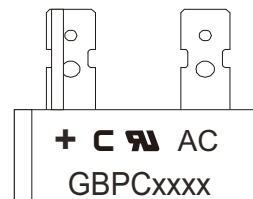


Fig.4 - Typical Reverse Characteristics



Marking Code

Part Number	Marking code
GBPC25005-G	GBPC25005
GBPC35005-G	GBPC35005
GBPC50005-G	GBPC50005
GBPC2501-G	GBPC2501
GBPC3501-G	GBPC3501
GBPC5001-G	GBPC5001
GBPC2502-G	GBPC2502
GBPC3502-G	GBPC3502
GBPC5002-G	GBPC5002
GBPC2504-G	GBPC2504
GBPC3504-G	GBPC3504
GBPC5004-G	GBPC5004
GBPC2506-G	GBPC2506
GBPC3506-G	GBPC3506
GBPC5006-G	GBPC5006
GBPC2508-G	GBPC2508
GBPC3508-G	GBPC3508
GBPC5008-G	GBPC5008
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