

GBPC15005W-G Thru. GBPC5010W-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.
- Materials used carries UL recognition.
- UL recognized file # E349301

Mechanical Data

- Polarity: As marked on Body.
- Mounting position: Any.
- Weight: 11.92 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_W-G	GBPC_W-G	GBPC_W-G	GBPC_W-G	GBPC_W-G	GBPC_W-G	GBPC_W-G	Unit
		15005	1501	1502	1504	1506	1508	1510	
		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_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V

Parameter	Symbol	GBPC15W	GBPC25W	GBPC35W	GBPC50W	Unit
Maximum Average Forward Rectified Output Current @ $T_c=55^\circ C$	$I_{(AV)}$	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 rated DC Blocking Voltage Per Element @ $T_J=25^\circ C$	I_R	10.0				μA
Operating Temperature Range	T_J	-55 to +150				$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150				$^\circ C$

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

REV: D

Rating and Characteristics Curves (GBPC10005W-G Thru. GBPC5010W-G Series)

Fig.1 - Maximum Forward Surge Current

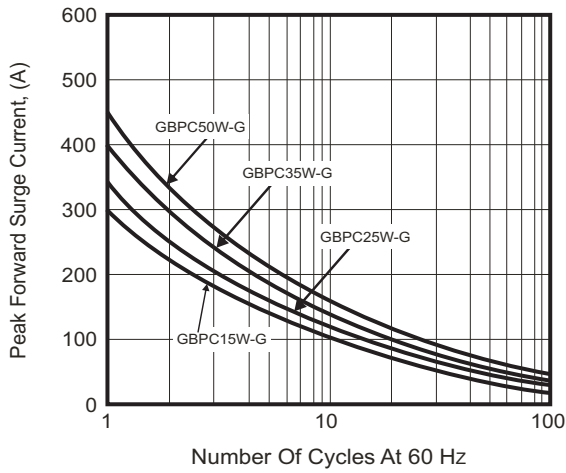


Fig.2 - De-rating Current Output Rectified Current

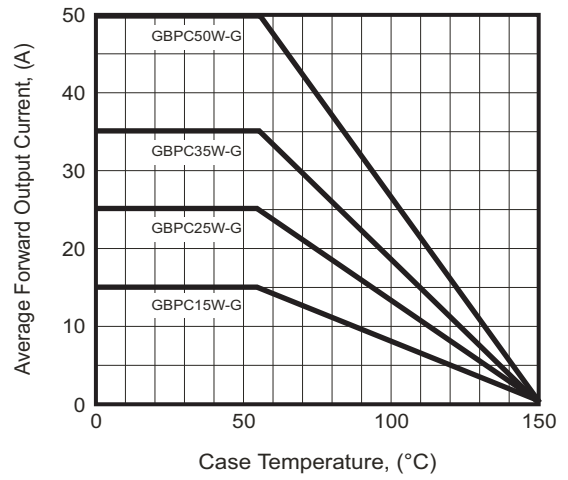


Fig.3 - Typical Forward Characteristics

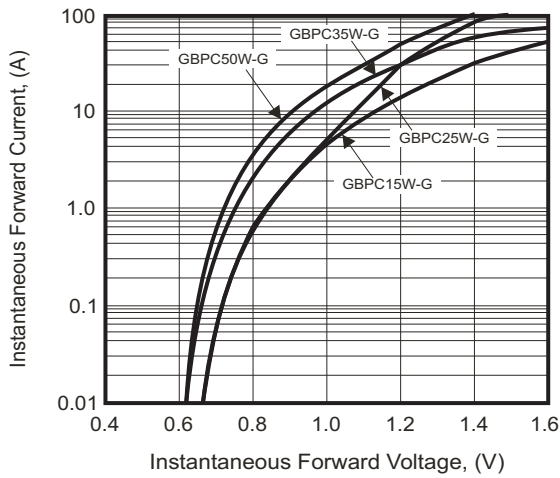


Fig.4 - Typical Reverse Characteristics

