



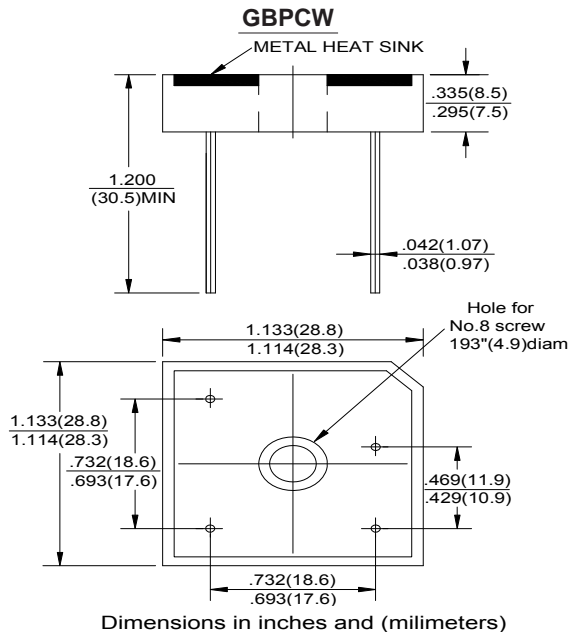
GBPC15/25/35/50W SERIES

SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 15/25/35/50 Amperes

FEATURES

- ◆ Surge overload -300~450 amperes peak
- ◆ Low forward voltage drop
- ◆ Mounting position :Any
- ◆ Electrically isolated base-2000 Vlots
- ◆ Materials used carries U/L recognition



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

MDD Catalog Number	SYMBOLS	GBPC-W	GBPC-W	GBPC-W	GBPC-W	GBPC-W	GBPC-W	GBPC-W	UNITS	
		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 repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	VOLTS	
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	VOLTS	
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	VOLTS	
Maximum average forward output rectified current at T _c =50°C (Note 1,2)	I <sub(av)< sub=""></sub(av)<>	GBPCW 15A	15	GBPCW 25A	25	GBPCW 35A	35	GBPCW 50A	50	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}		300.0		350.0		400.0		450.0	Amps
Maximum instantaneous forward voltage drop per bridge element at 7.5/12.5/17.5/25A	V _F	1.1							Volts	
Maximum DC reverse current T _J =25°C at rated DC blocking voltage T _J =100°C	I _R	10							μA	
		1.0							mA	
Operating junction temperature range	T _J	-55 to +150							°C	
storage temperature range	T _{STG}	-55 to +150							°C	



RATINGS AND CHARACTERISTIC CURVES GBPC15/25/35/50W SERIES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

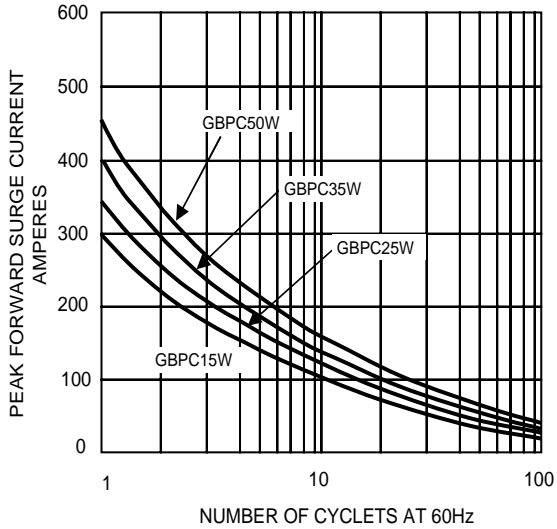


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

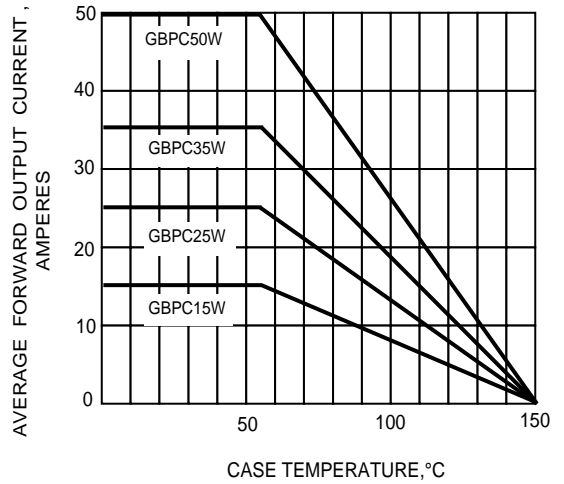


FIG.3-TYPICAL FORWARD CHARACTERISTICS

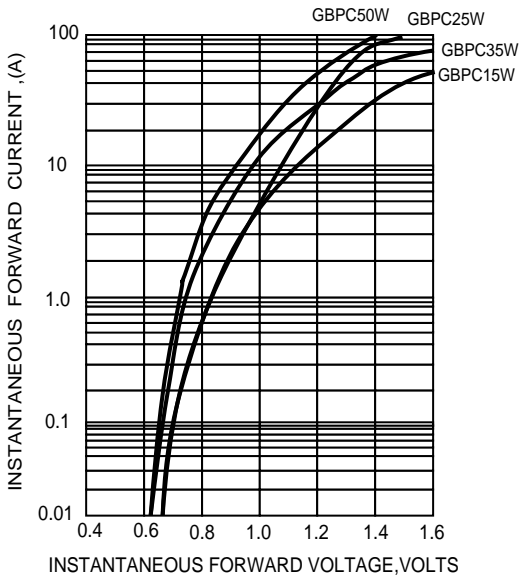
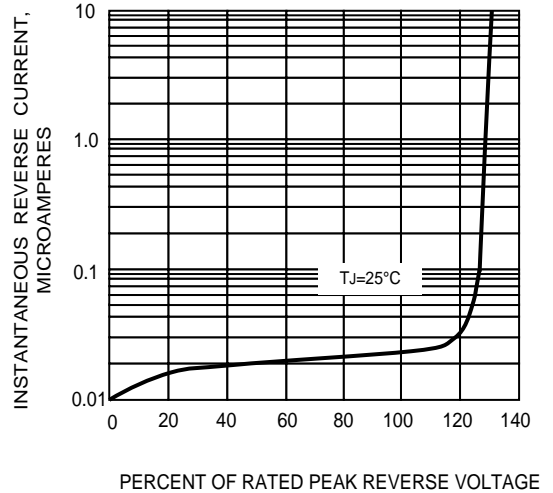


FIG.4-TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment()!

