TGBPC15/25/35/50 SERIES

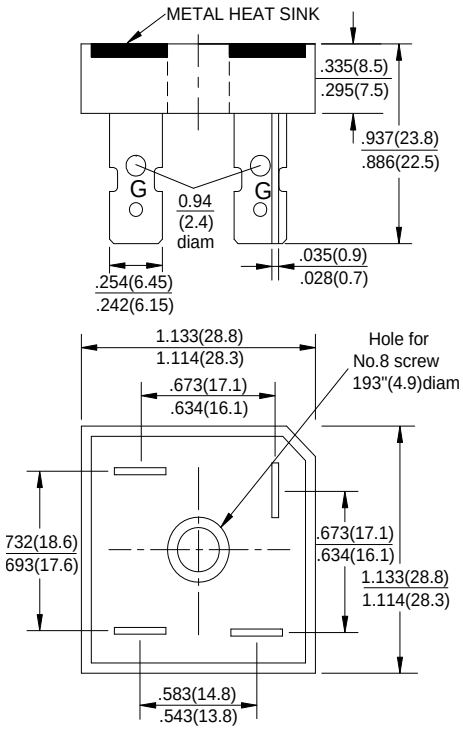
GLASS PASSIVATED
BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50** to **1000**Volts
RWARD 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
- Solderable 0.25" FAST ON terminals
- Materials used carries U/L recognition

Dimensions In Inches and (milimeters)



GBPC

Part Number Code

T	G	B	P	C	1	5	0	0	5
1	2	3	4	5	6	7	8	9	10

Product Type	
TSK	TGBPC series

Rectified Current	
15	15A
25	25A
35	35A

Peak Repetitive Reverse Voltage (V)	
005	50V
01	100V
02	200V

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	TGBPC 15005 / 25005 / 35005 / 50005	TGBPC 1501 / 2501 / 3501 / 5001	TGBPC 1502 / 2502 / 3502 / 5002	TGBPC 1504 / 2504 / 3504 / 5004	TGBPC 1506 / 2506 / 3506 / 5006	TGBPC 1508 / 2508 / 3508 / 5008	TGBPC 1510 / 2510 / 3510 / 5010	UNIT
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 Average Forward Rectified Output Current @ T_C=55℃	$I_{(AV)}$	GBPC 15	15	GBPC 25	25	GBPC 35	35	GBPC 50	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 7.5/12.5/17.5/25.0 A Peak	V_F	1.1								V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element @ T_J=25℃	I_R	10								μA
Operating Temperature Range	T_J	-55 to +150								℃
Storage Temperature Range	T_{STG}	-55 to +150								℃

RATING AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

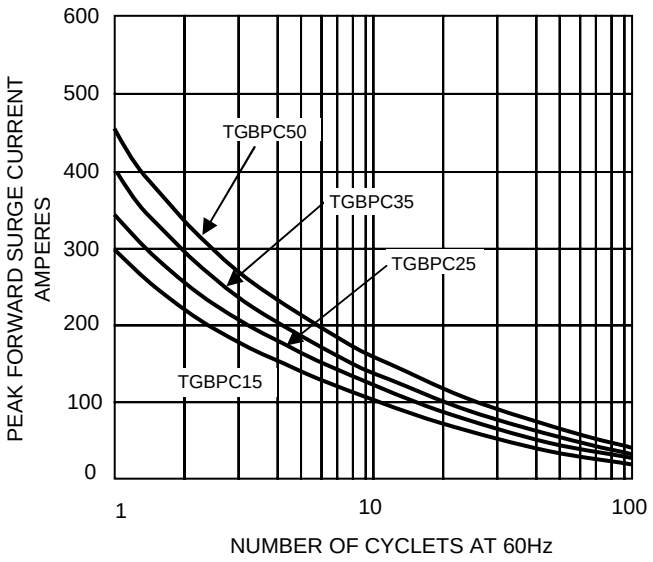


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

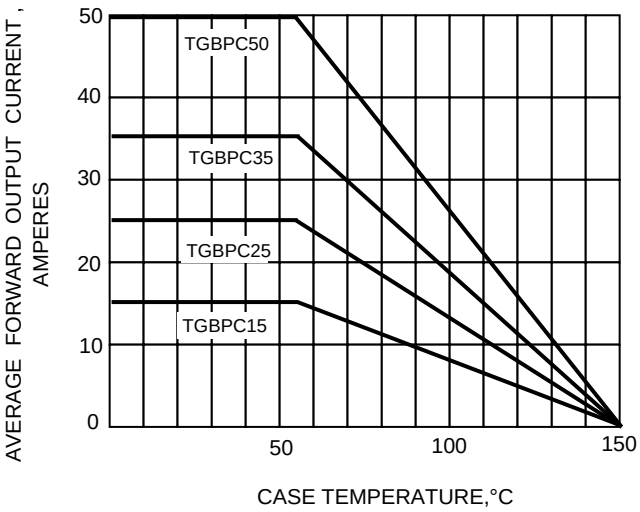


FIG.3-TYPICAL FORWARD CHARACTERISTICS

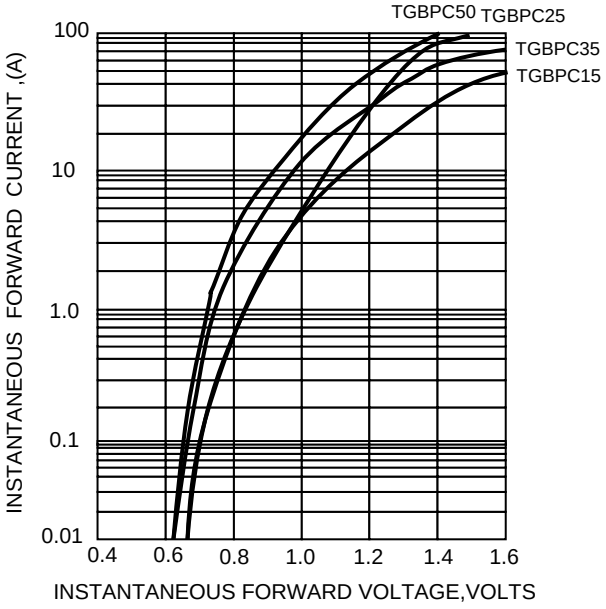
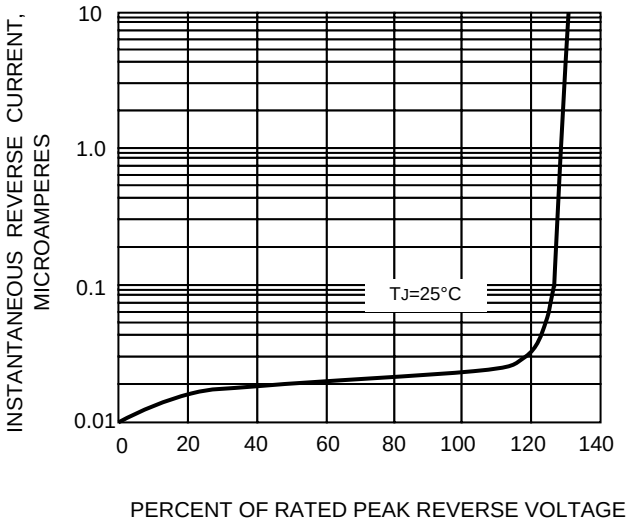


FIG.4-TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!