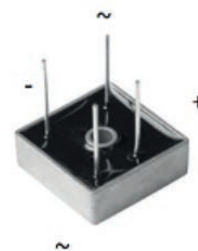
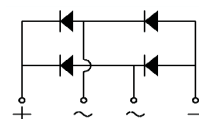


Features

- Surge overload 240 to 500 amperes peak
- Low forward voltage drop
- Mounting position: Any
- Electrically isolated base -2000 Volts
- Materials used carries U/L recognition



KBPCW



Schematic Diagram

Maximum Ratings and Electrical Characteristics

(Rating at 25°C ambient temperature unless otherwise specified. Resistive or inductive load 60Hz. For capacitive load, derate current by 20%.)

Parameters	Symbol	GSKBPCxxW										Units
		10005	1001	1002	1004	1006	1008	1010				
		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	V			
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V			
Maximum Average Forward Rectified Output Current @ $T_C=55^{\circ}C$	$I_{(AV)}$	GSK BPC	10	GSK BPC	15	GSK BPC	25	GSK BPC	35	GSK BPC	50	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	10W	240	15W	300	25W	400	35W	400	50W	500	A
Maximum Forward Voltage Drop Per Element at 5.0A/7.5A/12.5A/17.5A/25.0A Peak (50% $I_{(AV)}$)	V_F	1.1										V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element @ $T_J=25^{\circ}C$	I_R	10										uA
Operating Temperature Range	T_J	-55 to +150										°C
Storage Temperature Range	T_{STG}	-55 to +150										°C

Ratings and Characteristics Curves

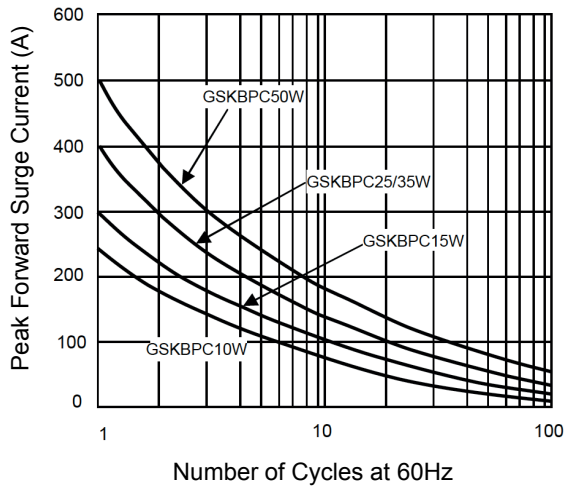


Figure 1. Maximum Forward Surge Current

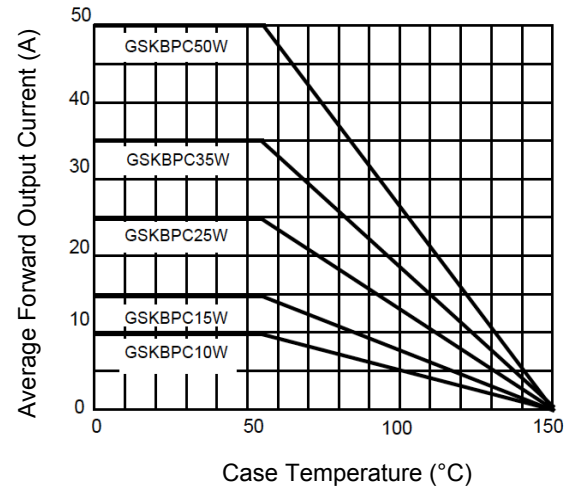


Figure 2. Derating Curve Output Rectified Current

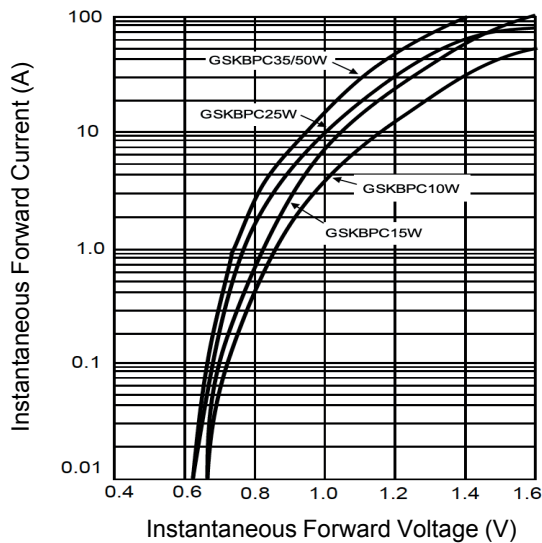


Figure 3. Typical Forward Characteristics

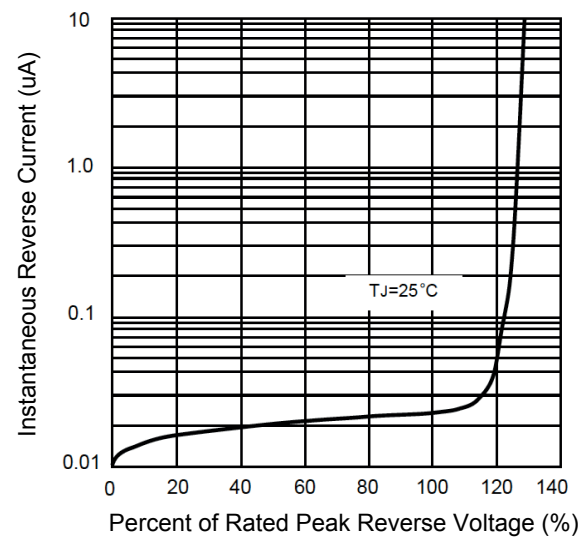
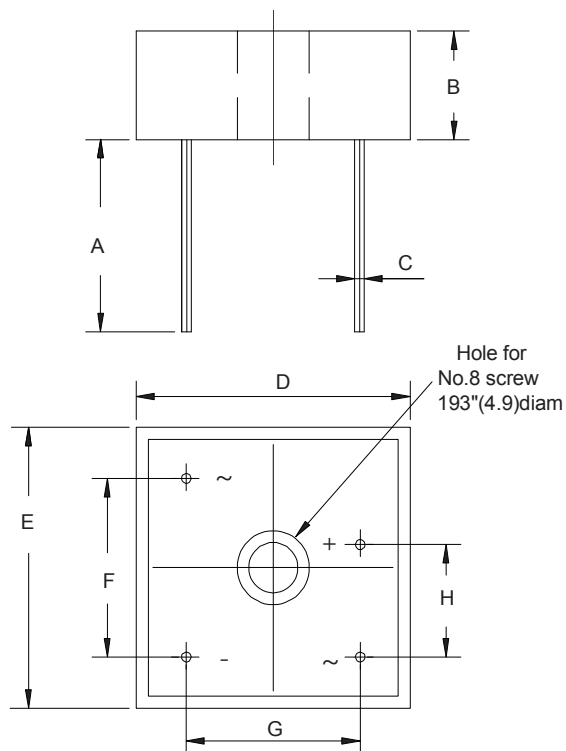


Figure 4. Typical Reverse Characteristics

Package Outline Dimensions (KBPCW)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	21.50	-	0.849	-
B	-	11.50	-	0.452
C	1.00	1.10	0.039	0.042
D	28.00	30.00	1.102	1.181
E	28.00	30.00	1.102	1.181
F	17.60	18.60	0.693	0.732
G	17.60	18.60	0.693	0.732
H	10.90	11.90	0.429	0.469

Order Information

Device	Package	Marking	Carrier	Quantity
GSKBPC10005W	KBPCW	KBPC10005W	Box	50pcs / Box
GSKBPC1001W	KBPCW	KBPC1001W	Box	50pcs / Box
GSKBPC1002W	KBPCW	KBPC1002W	Box	50pcs / Box
GSKBPC1004W	KBPCW	KBPC1004W	Box	50pcs / Box
GSKBPC1006W	KBPCW	KBPC1006W	Box	50pcs / Box
GSKBPC1008W	KBPCW	KBPC1008W	Box	50pcs / Box
GSKBPC1010W	KBPCW	KBPC1010W	Box	50pcs / Box
GSKBPC15005W	KBPCW	KBPC15005W	Box	50pcs / Box
GSKBPC1501W	KBPCW	KBPC1501W	Box	50pcs / Box
GSKBPC1502W	KBPCW	KBPC1502W	Box	50pcs / Box
GSKBPC1504W	KBPCW	KBPC1504W	Box	50pcs / Box
GSKBPC1506W	KBPCW	KBPC1506W	Box	50pcs / Box
GSKBPC1508W	KBPCW	KBPC1508W	Box	50pcs / Box
GSKBPC1510W	KBPCW	KBPC1510W	Box	50pcs / Box
GSKBPC25005W	KBPCW	KBPC25005W	Box	50pcs / Box
GSKBPC2501W	KBPCW	KBPC2501W	Box	50pcs / Box
GSKBPC2502W	KBPCW	KBPC2502W	Box	50pcs / Box
GSKBPC2504W	KBPCW	KBPC2504W	Box	50pcs / Box
GSKBPC2506W	KBPCW	KBPC2506W	Box	50pcs / Box
GSKBPC2508W	KBPCW	KBPC2508W	Box	50pcs / Box
GSKBPC2510W	KBPCW	KBPC2510W	Box	50pcs / Box
GSKBPC35005W	KBPCW	KBPC35005W	Box	50pcs / Box
GSKBPC3501W	KBPCW	KBPC3501W	Box	50pcs / Box
GSKBPC3502W	KBPCW	KBPC3502W	Box	50pcs / Box
GSKBPC3504W	KBPCW	KBPC3504W	Box	50pcs / Box
GSKBPC3506W	KBPCW	KBPC3506W	Box	50pcs / Box
GSKBPC3508W	KBPCW	KBPC3508W	Box	50pcs / Box
GSKBPC3510W	KBPCW	KBPC3510W	Box	50pcs / Box
GSKBPC50005W	KBPCW	KBPC50005W	Box	50pcs / Box
GSKBPC5001W	KBPCW	KBPC5001W	Box	50pcs / Box
GSKBPC5002W	KBPCW	KBPC5002W	Box	50pcs / Box
GSKBPC5004W	KBPCW	KBPC5004W	Box	50pcs / Box
GSKBPC5006W	KBPCW	KBPC5006W	Box	50pcs / Box
GSKBPC5008W	KBPCW	KBPC5008W	Box	50pcs / Box
GSKBPC5010W	KBPCW	KBPC5010W	Box	50pcs / Box