KBPC10/15/25/35/50AW SERIES

SILICON BRIDGE RECTIFIERS

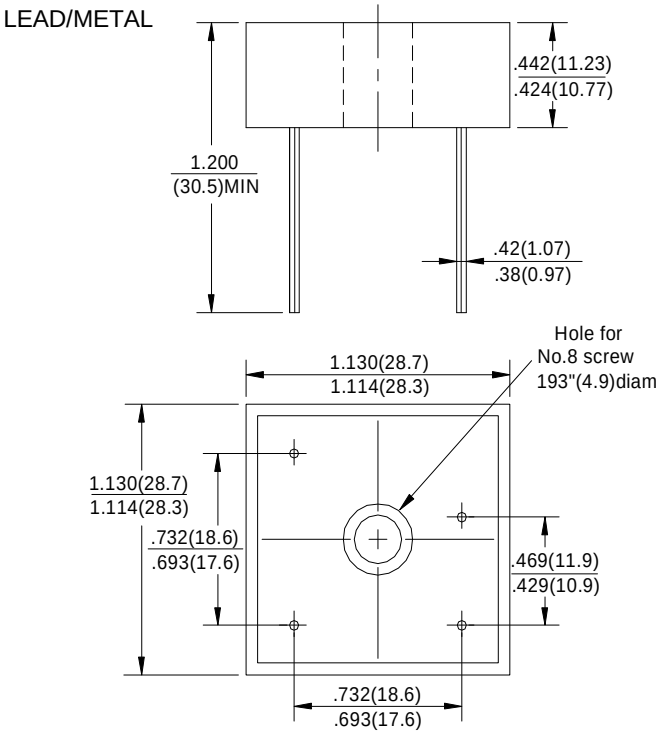
REVERSE VOLTAGE - **50** to **1000**Volts

FORWARD CURRENT - **10/15/25/35/50** Amperes

FEATURES

- Surge overload -240~500 Amperes peak
- Low forward voltage drop
- Mounting Position : Any
- Electrically isolated base -2000 Volts
- Solderable 0.25" FASTON terminals
- Materials used carries U/L recognition

KBPC-W



Dimensions in inches and (milimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

For capacitive load current by 20%

CHARACTERISTICS	SYMBOL	KBPC-W 10005	KBPC-W 1001	KBPC-W 1002	KBPC-W 1004	KBPC-W 1006	KBPC-W 1008	KBPC-W 1010	UNIT
		KBPC-W 15005	KBPC-W 1501	KBPC-W 1502	KBPC-W 1504	KBPC-W 1506	KBPC-W 1508	KBPC-W 1510	
		KBPC-W 25005	KBPC-W 2501	KBPC-W 2502	KBPC-W 2504	KBPC-W 2506	KBPC-W 2508	KBPC-W 2510	
		KBPC-W 35005	KBPC-W 3501	KBPC-W 3502	KBPC-W 3504	KBPC-W 3506	KBPC-W 3508	KBPC-W 3510	
		KBPC-W 50005	KBPC-W 5001	KBPC-W 5002	KBPC-W 5004	KBPC-W 5006	KBPC-W 5008	KBPC-W 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 Average Forward Rectified Output Current @T_C=55℃	$I_{(AV)}$	KBPC 10W: 10	KBPC 15W: 15	KBPC 25W: 25	KBPC 35W: 35	KBPC 50W: 50			A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	KBPC 10W: 240	KBPC 15W: 300	KBPC 25W: 400	KBPC 35W: 400	KBPC 50W: 500			A
Maximum Forward Voltage Drop Per Element at 5.0/7.5/12.5/17.5/25.0A Peak	V_F	1.1							V
Maximum Reverse Current at Rate DC Blocking Voltage Per Element @T_A=25℃	I_R	10							uA
Operating Temperature Range	T_J	-55 to +125							℃
Storage Temperature Range	T_{STG}	-55 to +125							℃

NOTES:Also available on KBPC 10W/15W/25W/35W/50W series.

FIG.1-MAXIMUM FORWARD SURGE CURRENT

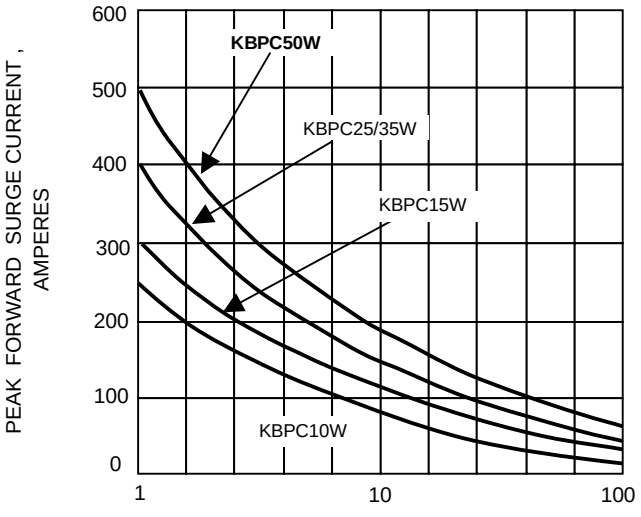


FIG.2- DERATING CURVE
OUTPUT RECTIFIED CURRENT

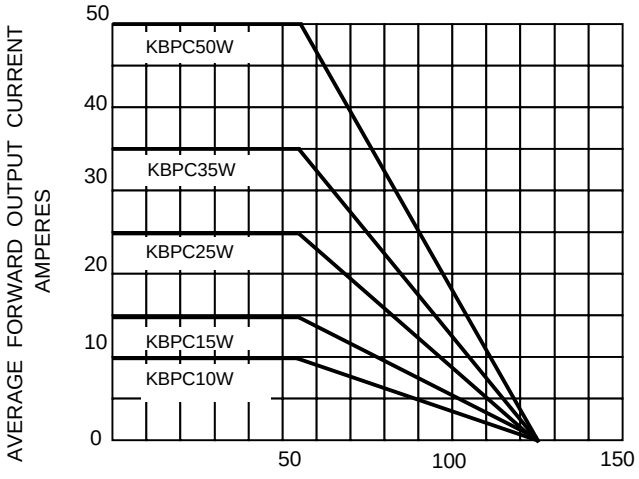


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

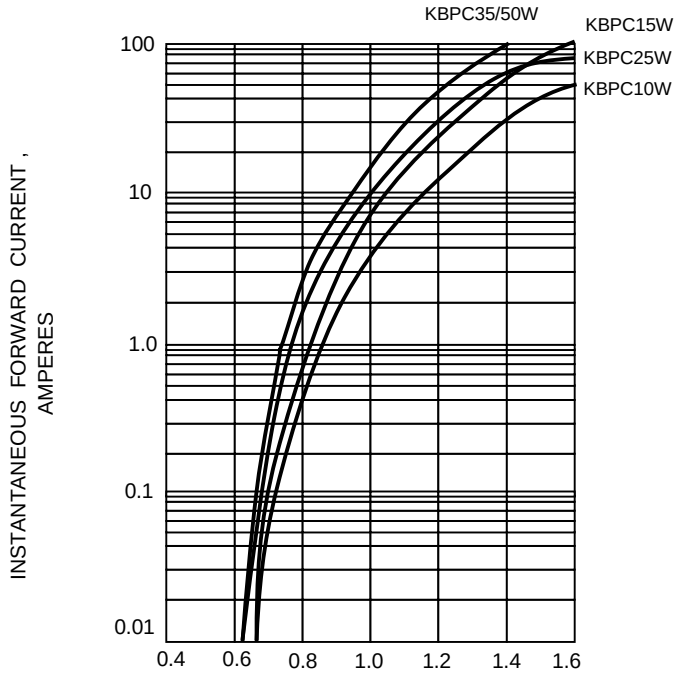


FIG.4-TYPICAL REVERSE
CHARACTERISTICS