

# KBPC10/15/25/35/50AW SERIES

<b>SILICON BRIDGE RECTIFIERS</b>	<b>REVERSE VOLTAGE - 50 to 1000Volts</b> <b>FORWARD CURRENT - 10/15/25/35/50 Amperes</b>
<b>FEATURES</b> <ul style="list-style-type: none"> <li>● Surge overload -240~500 Amperes peak</li> <li>● Low forward voltage drop</li> <li>● Mounting Position : Any</li> <li>● Electrically isolated base -2000 Volts</li> <li>● Solderable 0.25" FASTON terminals</li> <li>● Materials used carries U/L recognition</li> </ul>	<p style="text-align: center;">Dimensions in inches and (millimeters)</p>

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

For capacitive load current by 20%

CHARACTERISTICS	SYMBOL	KBPC-W								UNIT		
		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 Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000		V		
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700		V		
Maximum Average Forward Rectified Output Current @T <sub>C</sub> =55°C	I <sub>(AV)</sub>	KBPC 10W	10	KBPC 15W	15	KBPC 25W	25	KBPC 35W	35	KBPC 50W	50	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	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 <sub>F</sub>	1.1								V		
Maximum Reverse Current at Rate DC Blocking Voltage Per Element @T <sub>A</sub> =25°C	I <sub>R</sub>	10								μA		
Operating Temperature Range	T <sub>J</sub>	-55 to +125								°C		
Storage Temperature Range	T <sub>STG</sub>	-55 to +125								°C		

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

# RATING AND CHARACTERISTIC CURVES

## KBPC10/15/25/35/50A W SERIES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

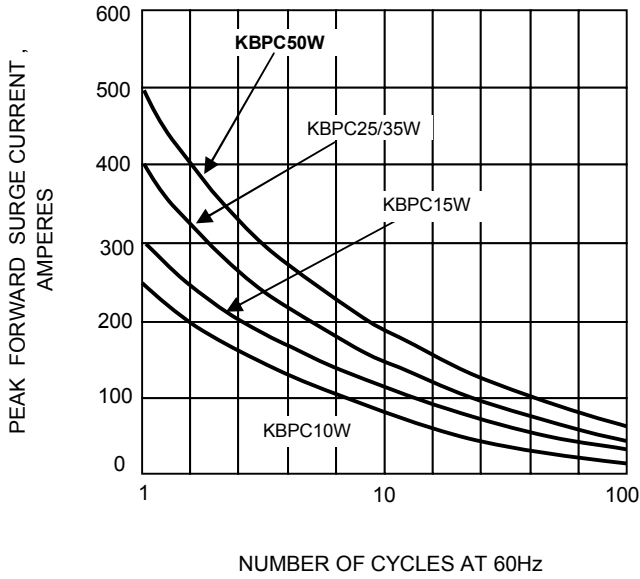


FIG.2- DERATING CURVE  
OUTPUT RECTIFIED CURRENT

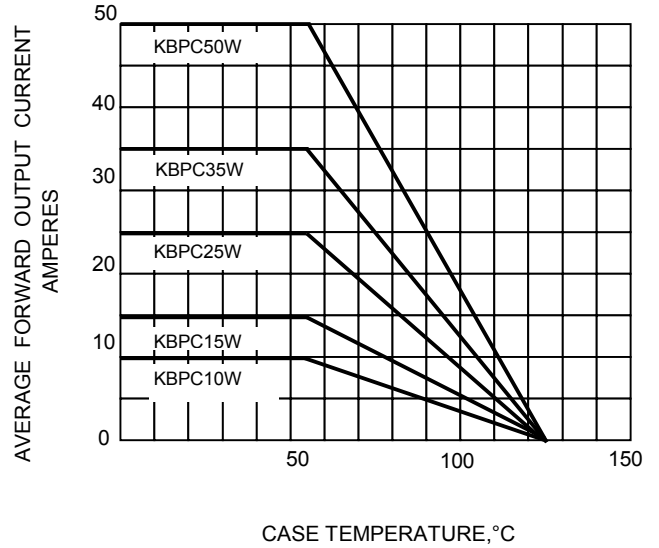


FIG.3-TYPICAL FORWARD CHARACTERISTICS

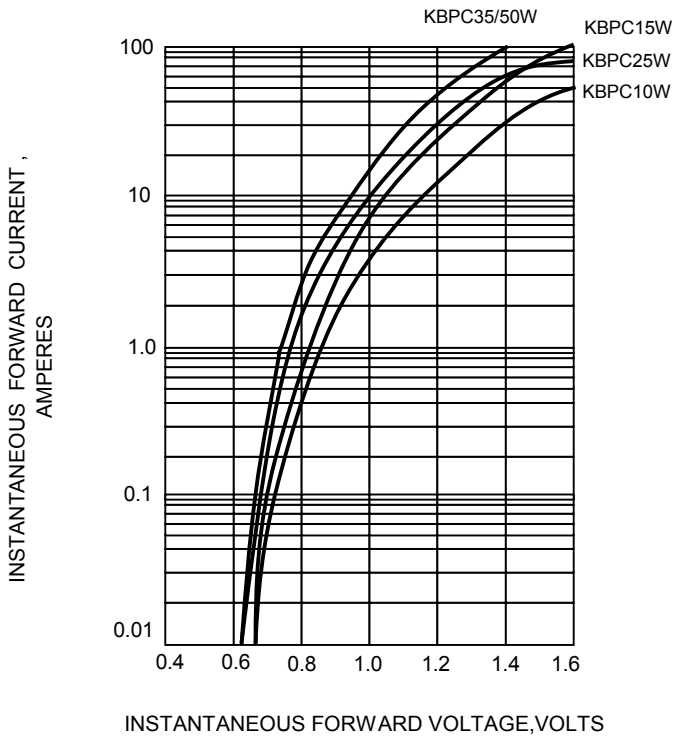


FIG.4-TYPICAL REVERSE CHARACTERISTICS

