



# 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>● 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									
		KBPC-W	KBPC-W	KBPC-W	KBPC-W	KBPC-W	KBPC-W	KBPC-W	KBPC-W	KBPC-W	KBPC-W										
		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	10W	15W	25W		35W	50W	10W	15W	25W	35W	50W		
		10	15	25	35	50	10	15	25	35	50		10	15	25	35	50	10	15	25	35
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>																				A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>																				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>J</sub> =25°C	I <sub>R</sub>	10																		μA	
Operating Temperature Range	T <sub>J</sub>	-55 to +150																		°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to +150																		°C	

**RATING AND CHARACTERISTIC CURVES**  
**KBPC10/15/25/35/50A W SERIES**



FIG.1-MAXIMUM FORWARD SURGE CURRENT

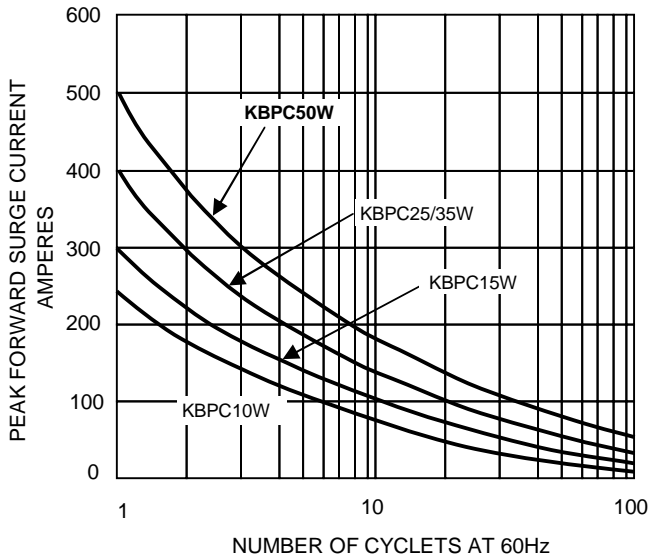


FIG.2- DERATING CURVE  
OUTPUT RECTIFIED CURRENT

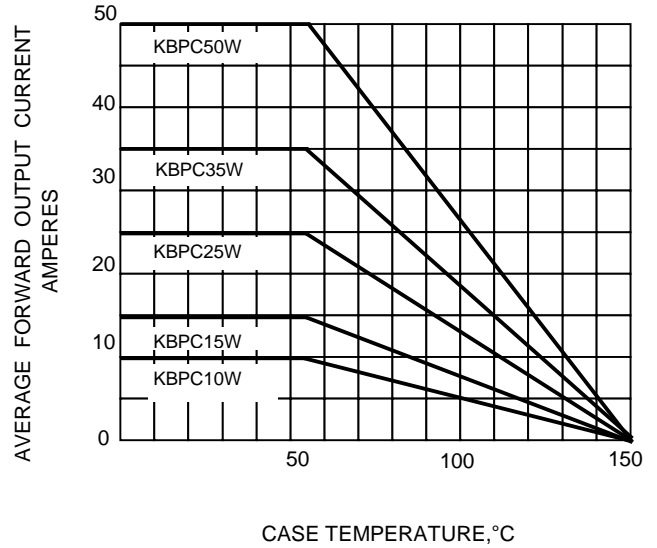


FIG.3-TYPICAL FORWARD CHARACTERISTICS

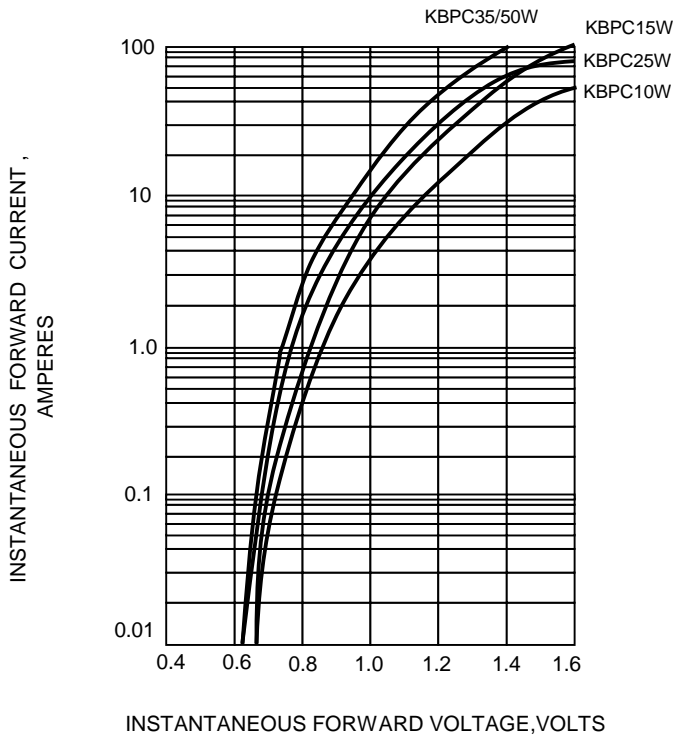


FIG.4-TYPICAL REVERSE CHARACTERISTICS

