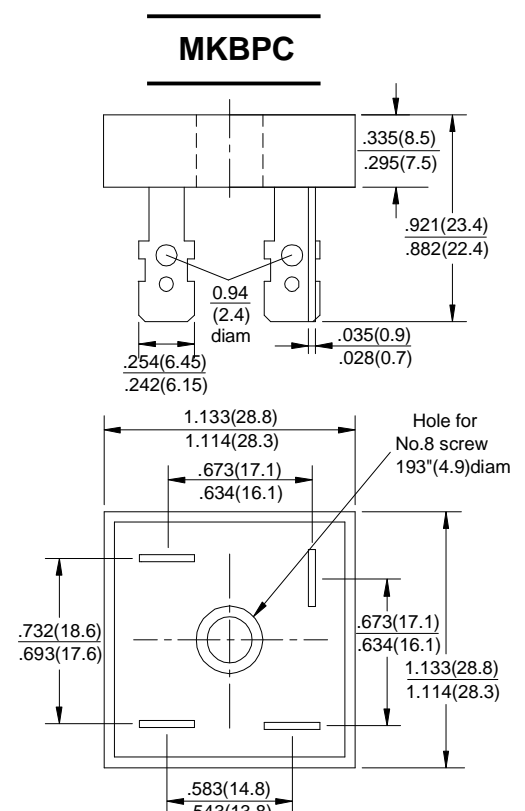


# MKBPC10/15/25/35/50A SERIES

<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" FAST ON terminals</li> <li>● Materials used carries U/L recognition</li> </ul>	 <p style="text-align: center;">MKBPC</p> <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	MKBPC										UNIT		
		MKBPC	MKBPC	MKBPC	MKBPC	MKBPC	MKBPC	MKBPC	MKBPC	MKBPC	MKBPC			
		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>	M	10	M	15	M	25	M	35	M	50			A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	KBPC 10	240	KBPC 15	300	KBPC 25	400	KBPC 35	400	KBPC 50	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 Rated 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		

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

**RATING AND CHARACTERISTIC CURVES**  
**MKBPC10/15/25/35/50A SERIES**



FIG.1-MAXIMUM FORWARD SURGE CURRENT

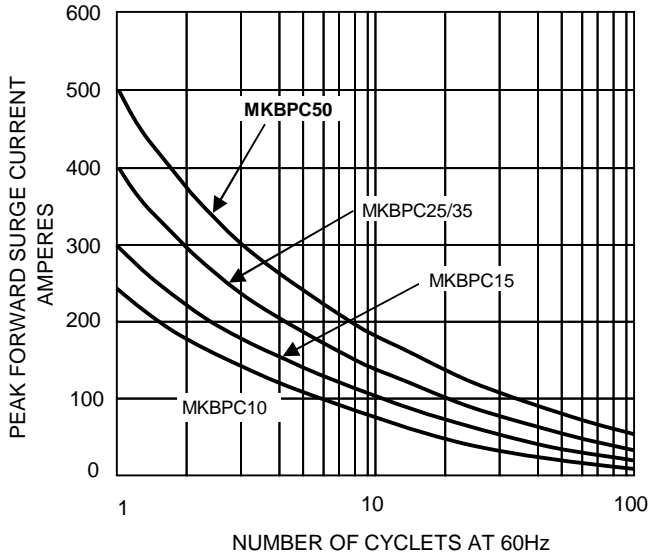


FIG.2- DERATING CURVE  
 OUTPUT RECTIFIED CURRENT

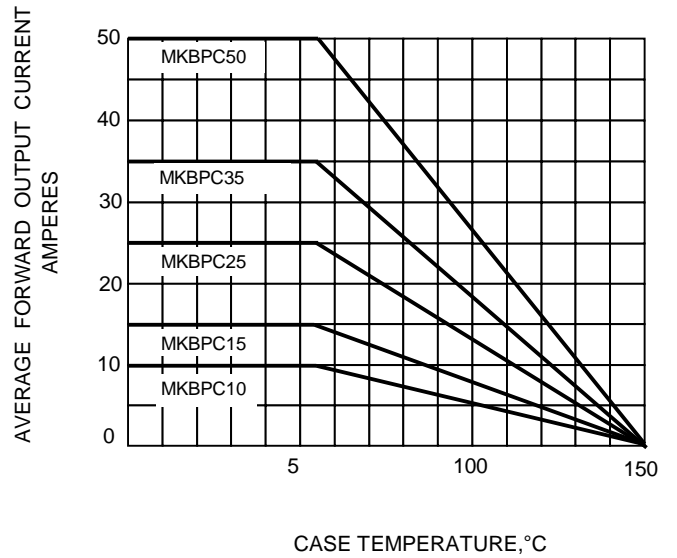


FIG.3-TYPICAL FORWARD CHARACTERISTICS

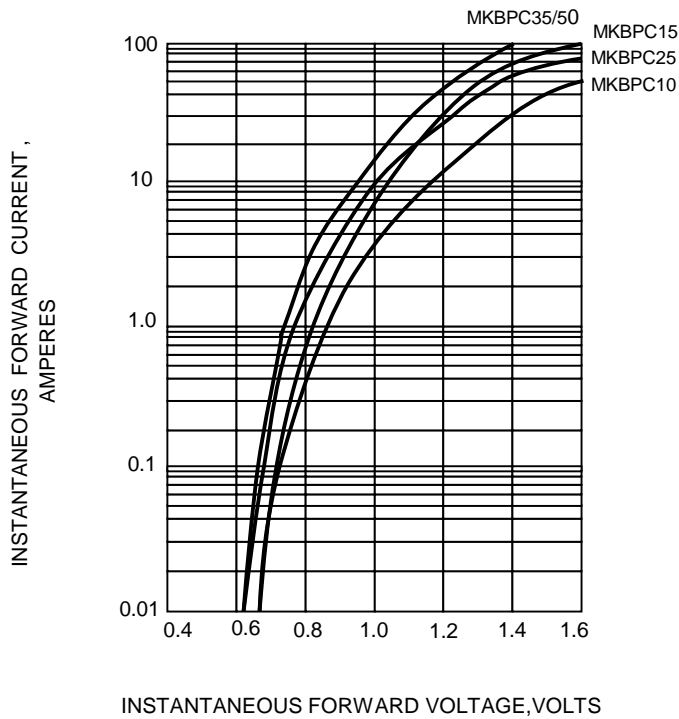


FIG.4-TYPICAL REVERSE CHARACTERISTICS

