

SILICON BRIDGE RECTIFIERS		REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 10/15/25/35/50 Amperes															
<b>FEATURES</b>		<b>KBPC</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>The drawing shows a top-down view of the KBPC package. It features a central circular hole for a No.8 screw (19.3mm diameter). The package is square with four side leads. Dimensions include height (1.133/28.8mm), width (1.114/28.3mm), and lead spacing (0.673/17.1mm). Lead thickness is 0.035/0.9mm. The base has a central hole (0.583/14.8mm) and side holes (0.543/13.8mm). Side dimensions are 0.254/6.45mm and 0.242/6.15mm. Top dimensions are 0.94/2.4mm diam and 0.442/11.23mm and 0.424/10.77mm. Total height is 0.921/23.4mm and 0.882/22.4mm.</p>															
		Dimensions in inches and (millimeters)															
<b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b>																	
Rating at 25°C ambient temperature unless otherwise specified.																	
Resistive or inductive load 60Hz.																	
For capacitive load current by 20%																	
CHARACTERISTICS	SYMBOL	KBPC															
		10005	1001	1002	1004	1006	1008	1010	UNIT								
		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>R</sub> RM	50	100	200	400	600	800	1000	V								
Maximum RMS Bridge Input Voltage	V <sub>R</sub> M <sub>S</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 10	10	KBPC 15	15	KBPC 25	25	KBPC 35	35	KBPC 50							
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>F</sub> SM		240		300		400		400								
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							
REV. 1, 30-Dec-2011																	



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

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FIG.1-MAXIMUM FORWARD SURGE CURRENT

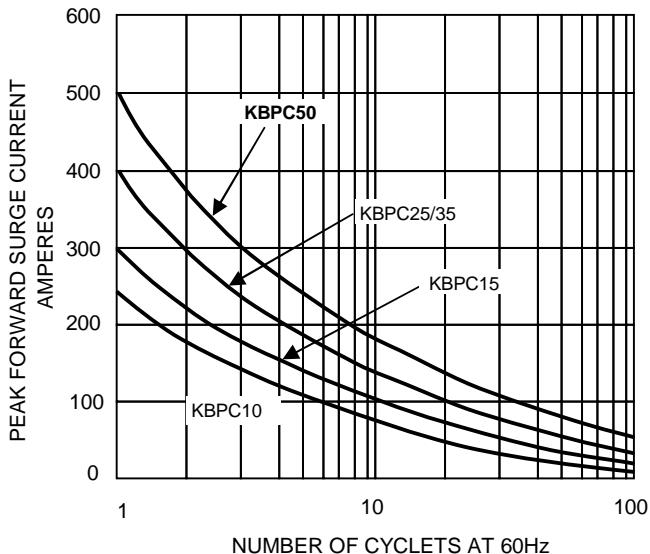


FIG.2- DERATING CURVE  
 OUTPUT RECTIFIED CURRENT

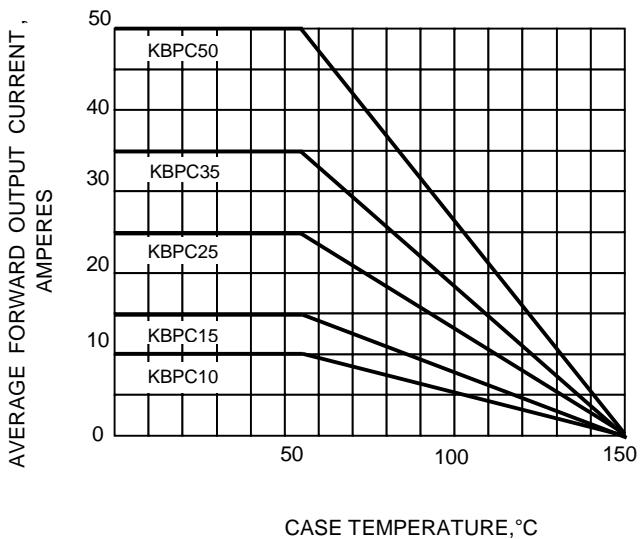


FIG.3-TYPICAL FORWARD  
 CHARACTERISTICS

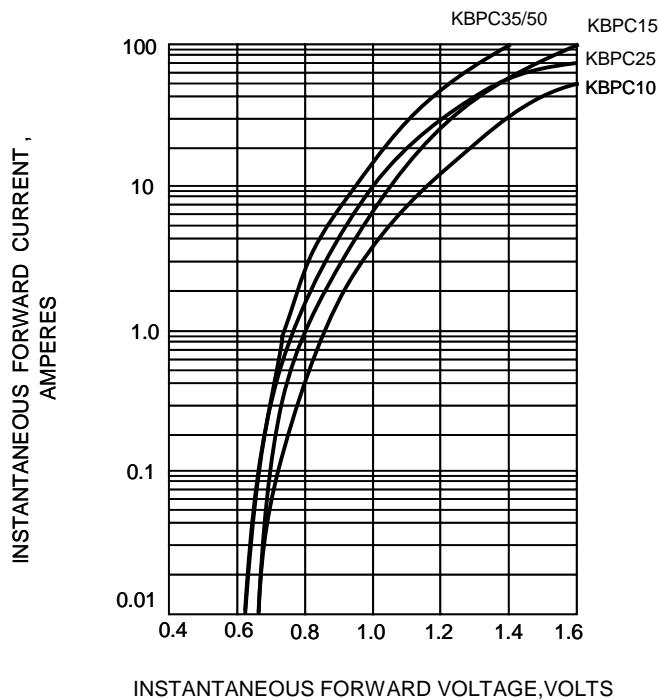


FIG.4-TYPICAL REVERSE  
 CHARACTERISTICS

