

## KBPC15005 THRU KBPC1510

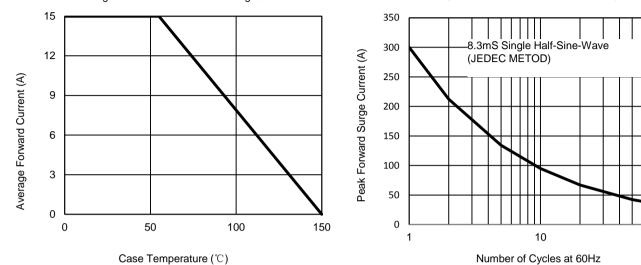
Silicon Bridge Rectifiers			Reverse Voltage - 50 to 1000 Volts							
			Forward Current - 15 Amperes							
<ul> <li>Features</li> <li>Low forward voltage drop</li> <li>Electrically isolated base -2000 Volts</li> <li>High surge forward current capability</li> <li>Materials used carries U/L recognition</li> <li>Mechanical Data</li> <li>Polarity: Symbol marked on body</li> <li>Mounting position: Any</li> <li>Applications</li> <li>General purpose use in AC/DC bridge full wave rectification for power supply, industrial automation applications, etc.</li> </ul>	n,	KBP	C	.254 (6.45) .242 (6.15) 1.133 1.112 65 61 	3 (28.8) 4 (28.3) 7 (16.7) 8 (15.7) + + - - - - - - - - - - - - -	.035 (0.9) .028 (0.7) Hol No.8 193"( .657 (16.7 .618 (15.7 .1.13) 1.11	(23.4) (21.8) (2	10	RoHS	
<b>Maximum Ratings and Electrical Characte</b> Rating at 25°C ambient temperature unless otherwise specif Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.										
Characteristics	Symbol	KBPC 15005	KBPC 1501	KBPC 1502	KBPC 1504	KBPC 1506	KBPC 1508	KBPC 1510	Unit	
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V	
Maximum Average Forward Rectified Current @Tc=55 $^\circ C$	l(AV)	15					А			
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	IFSM	300						A		
I <sup>2</sup> t Rating for Fusing (t<8.3mS)	l <sup>2</sup> t			373.5						
Peak Forward Voltage per Diode at 7.5A DC	VF	1.1						V		
Maximum DC Reverse Current at Rated DC Blocking Voltage per Diode @Tj=25℃	IR	10						μA		
Operating Junction Temperature Range	TJ	-55 to +150						°C		
Storage Temperature Range	Тѕтс			-	55 to +15	0			°C	



100

Fig. 1 - Forward Current Derating Curve

Fig. 2 - Maximum Non-Repetitive Surge Current



Instantaneous Forward Current (A)

## Fig. 3 - Typical Reverse Characteristics

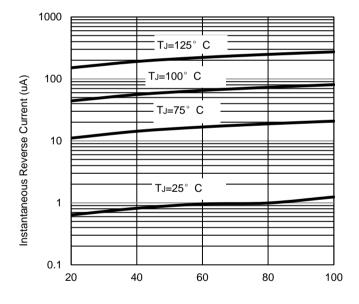
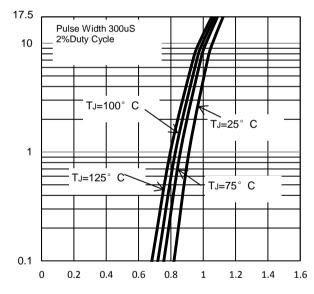




Fig. 4 - Typical Forward Characteristics



Instantaneous Forward Voltage (V)



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