

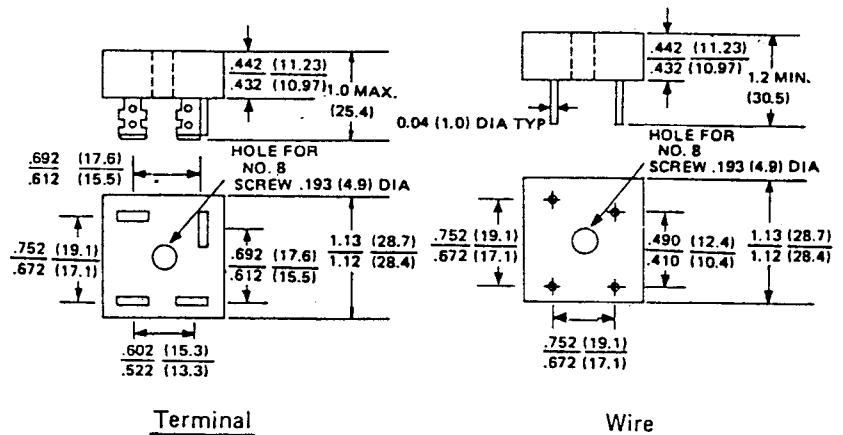
**VOLTAGE RANGE**  
 50 to 1000 Volts  
**CURRENT**  
 25 Amperes

**FEATURES**

- Rating to 1000V PRV
- 300 amperes surge capability
- High efficiency
- Electrically isolated metal case for maximum heat dissipation
- Weight: 1.1 ounce 31.6 grams (Terminal)  
 0.95 ounce 28.5 grams (Wire)
- Mounting: thru hole for # 8 screw

**KBPC**

**KBPC-W**



All dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25° C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60Hz, resistive or inductive load,  
 For capacitive load, derate current by 20%.

		KBPC 25005	KBPC 2501	KBPC 2502	KBPC 2504	KBPC 2506	KBPC 2508	KBPC 2510	UNIT
		KBPC 25005W	KBPC 2501W	KBPC 2502W	KBPC 2504W	KBPC 2506W	KBPC 2508W	KBPC 2510W	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Input Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ $T_c = 55^\circ C$	$I_{(AV)}$	25							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	300							A
Maximum Forward Voltage per Bridge Element at 12.5A, DC	$V_F$	1.2							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Bridge Element @ $T_A = 25^\circ C$ @ $T_A = 100^\circ C$	$I_R$	10 1							$\mu A$ mA
$I^2 t$ Rating for fusing ( $t < 8.3ms$ )	$I^2 t$	373							$A^2 S$
Typical Thermal Resistance (Note. 2)	$R_{\theta JA}$	2.5							$^\circ C/W$
Operating Temperature Range	$T_J$	-55 to + 125							$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to + 150							$^\circ C$

NOTE:

2. Mounted on a 11.8 in<sup>2</sup> X 0.06 in thick (300mm<sup>2</sup> X 1.5mm thick) Copper plate.