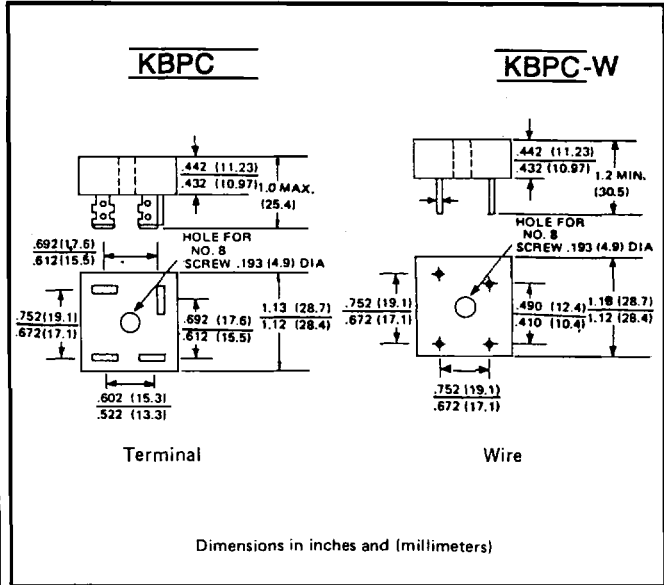




**VOLTAGE RANGE**  
200 to 800 Volts  
**CURRENT**  
25 Amperes

**FEATURES**

- Controlled Avalanche Series with 250V, 450V, 650V, and 850V minimum Avalanche Ratings
- 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
- UL Recognized file # E95060



**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%.

		AKBPC 25-02	AKBPC 25-04	AKBPC 25-06	AKBPC 25-08	UNITS
		AKBPC 25-02W	AKBPC 25-04W	AKBPC 25-06W	AKBPC 25-08W	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	400	600	800	V
Maximum RMS Input Voltage	$V_{RMS}$	140	280	420	560	V
Minimum Avalance Breakdown Voltage at 100 $\mu$ A		250	450	650	850	V
Maximum Avalance Breakdown Voltage at 100 $\mu$ A		700	900	1100	1300	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 <sup>2</sup> S
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	2.5				°C/W
Operating Temperature Range	$T_J$	-55 to +125				°C
Storage Temperature Range	$T_{STG}$	-55 to +150				°C

NOTE: 1. Mounted on a 11.8" X 0.06 in thick (300mm<sup>2</sup> X 1.5mm thick) Copper plate.

FIG. 1. FORWARD DERATING CURVE

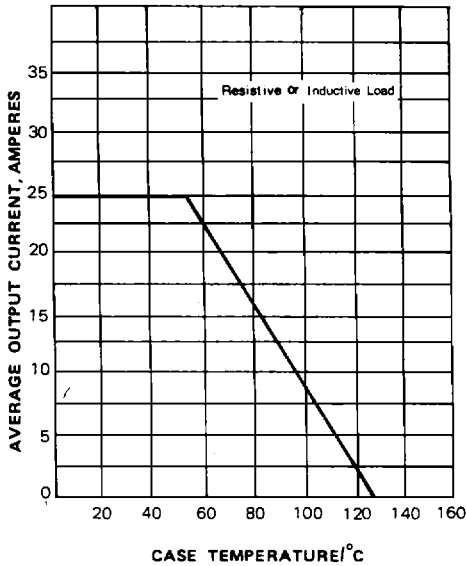


FIG. 2. PEAK FORWARD SURGE CURRENT

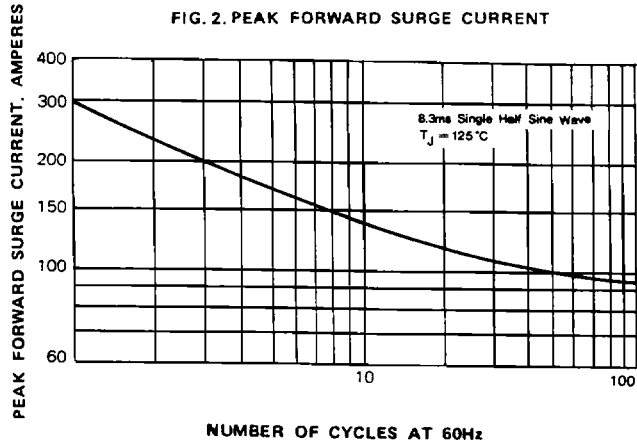


FIG. 3. TYPICAL FORWARD CHARACTERISTIC

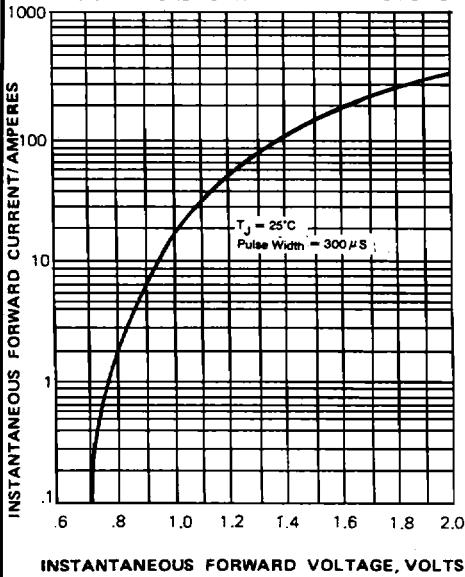


FIG. 4. TYPICAL REVERSE CHARACTERISTIC

