

FEATURES

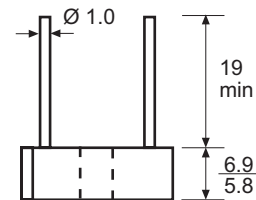
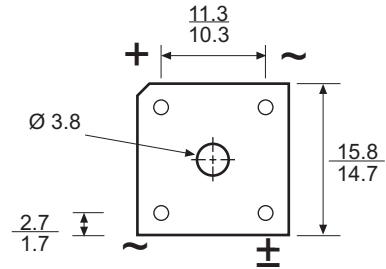
- Plastic material has Underwriters Laboratory flammability classification 94V-0.
- Low leakage.
- Surge overload rating - 125 amperes peak.
- Ideal for printed circuit boards.
- Exceeds environmental standards of MIL - STD - 19500.

MECHANICAL DATA

- Case** : Reliable low cost construction utilizing moulded plastic technique results in inexpensive product.
- Terminals** : Leads, solderable per MIL - STD - 202, Method 208.
- Polarity** : Polarity symbols printed on body.
- Weight** : 0.13 ounce, 3.8 grams.

VOLTAGE RANGE
50 to 1000 Volts

CURRENT
6.0 Amperes



Dimensions in millimetres

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

		KBPC6005	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610		
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	
Maximum Bridge Input Voltage RMS	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 Current at (see Fig 2)	T _C = 50°C* T _A = 50°C** I _{F(AV)}					6.0 4.0				A
Peak Forward Surge Current, 8.3 ms single half sine - wave superimposed on rated load (see Fig 1)	I _{FSM}					125				A
Maximum Forward Voltage Drop per Element at 3.0A DC (see Fig 3)	V _F					1.1				V
Maximum Reverse Current at Rated DC Blocking Voltage per Element (see Fig 4)	T _A = 25°C T _A = 100°C I _R					10.0 1.0				μA
Maximum Thermal Resistance	R _{θJC}					5.0				°C/W
Operating Temperature Range	T _J					- 55 to + 125				°C
Storage Temperature Range	T _{STG}					- 55 to + 150				°C

Notes * Unit mounted on metal heatsink.
** Unit mounted on P.C board.

RATING AND CHARACTERISTIC CURVES KBPC600 SERIES

FIG 1 : MAXIMUM NON-REPETITIVE SURGE CURRENT PER ELEMENT

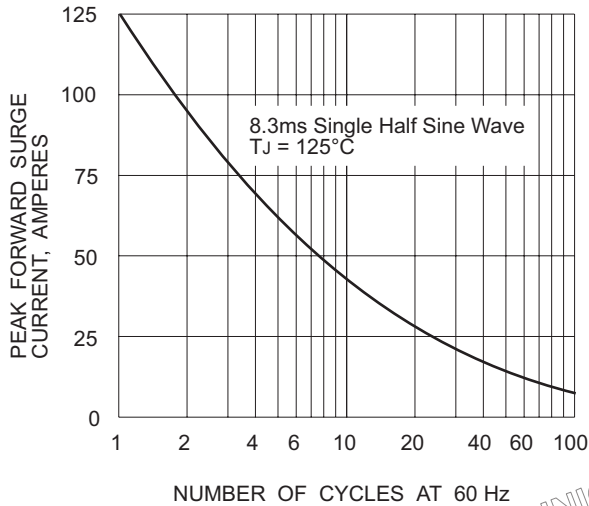


FIG 2 : DERATING CURVE FOR RECTIFIED OUTPUT CURRENT

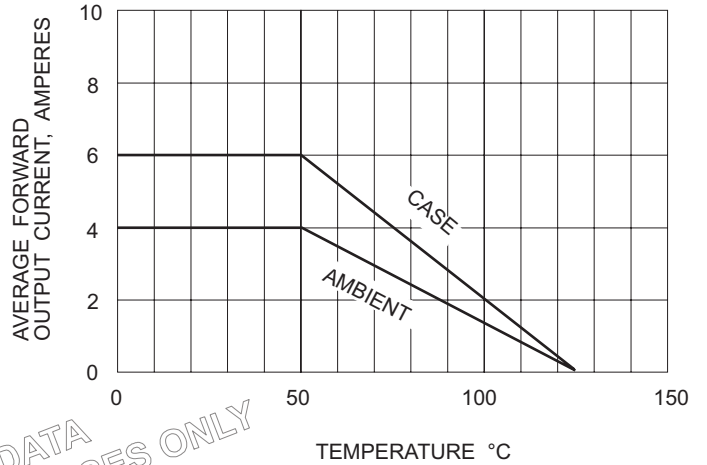


FIG 3 : TYPICAL FORWARD CHARACTERISTICS PER ELEMENT

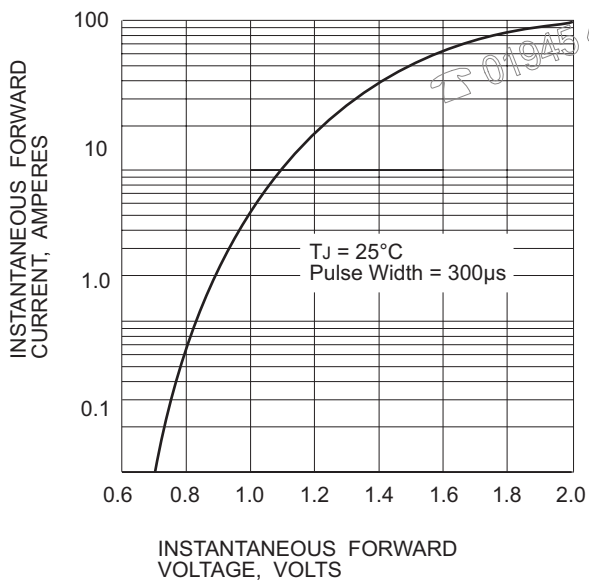
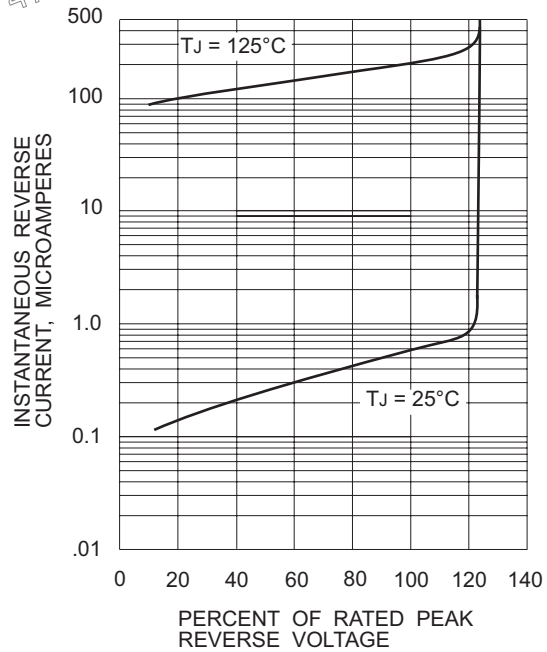


FIG 4 : TYPICAL REVERSE CHARACTERISTICS PER ELEMENT



TECHNICAL DATA
FOR REFERENCE PURPOSES ONLY
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