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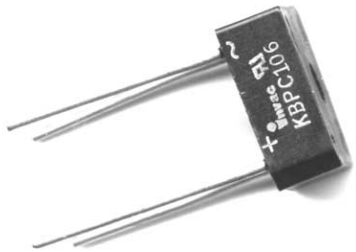
KBPC100 SERIES

3.0 AMPERE SINGLE-PHASE SILICON BRIDGE RECTIFIER

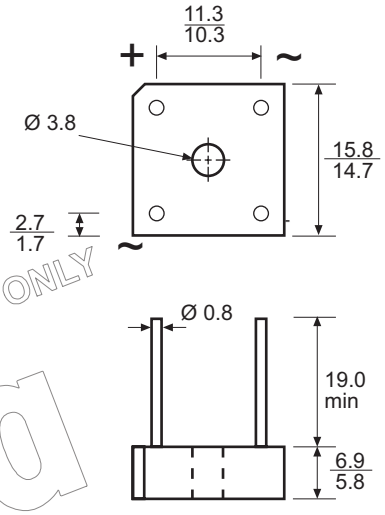


VOLTAGE RANGE
50 to 1000 Volts

CURRENT
3 Amperes

FEATURES

- *Plastic material has Underwriters Laboratory flammability classification 94V-0.*
- *Low leakage.*
- *Surge overload rating - 50 amperes peak.*
- *Ideal for printed circuit boards.*
- *Exceeds environmental standards of MIL - STD - 19500.*



Dimensions in millimetres

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.

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%.

		KBPC1005	KBPC101	KBPC102	KBPC103	KBPC104	KBPC106	KBPC108	KBPC110	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum Bridge Input Voltage RMS	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Current at (see Fig 2) T_C = 50°C* T_A = 50°C**	$I_{F(AV)}$	3.0 2.0								A
Peak Forward Surge Current, 8.3 ms single half sine - wave super-imposed on rated load (see Fig 1)	I_{FSM}	50								A
Maximum Forward Voltage Drop per Element at 1.5A DC (see Fig 3)	V_F	1.2								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 mA
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 KBPC100 SERIES

FIG 1 : MAXIMUM NON-REPETITIVE SURGE CURRENT PER ELEMENT

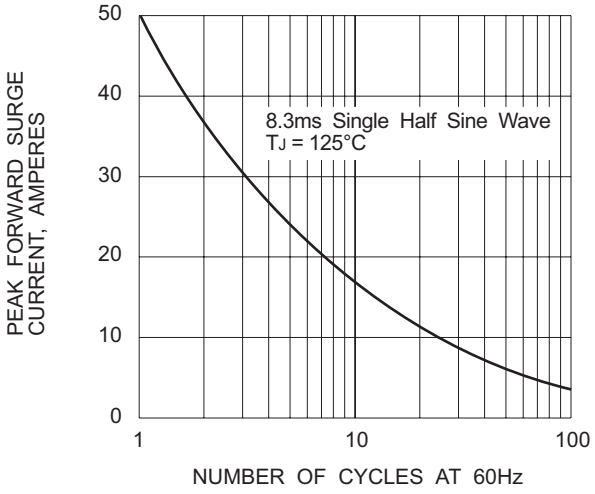


FIG 2 : DERATING CURVE FOR RECTIFIED OUTPUT CURRENT

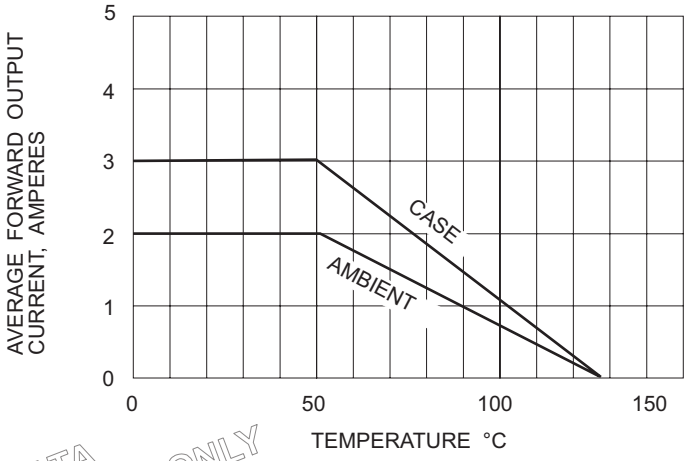


FIG 3 : TYPICAL FORWARD CHARACTERISTICS PER ELEMENT

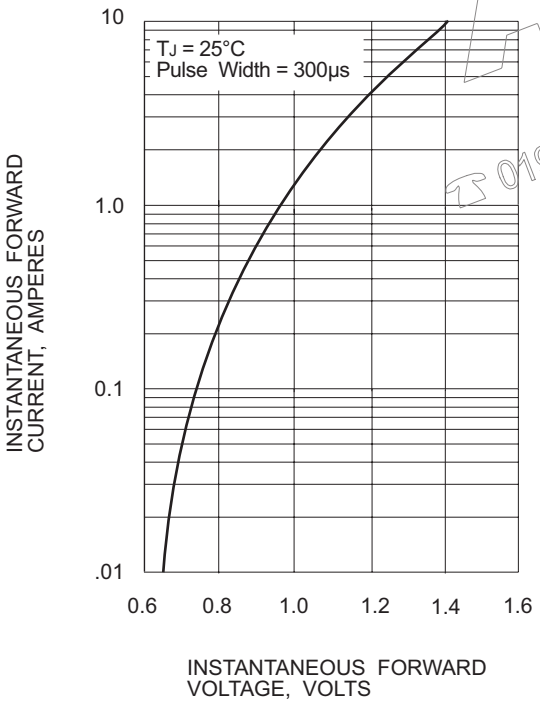


FIG 4 : TYPICAL REVERSE CHARACTERISTICS PER ELEMENT