Silicon Bridge Rectifiers *KBP005--KBP10*

FEATURES

Lead-free

- Rating to 1000V PRV
- Surge overload rating to 50 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208
- Plastic material has UL flammability classification 94V-O
- Weight: 2.04g
- Glass passivated chip junctions

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

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

		KBP 005	KBP 01	KBP 02	KBP 04	KBP 06	KBP 08	KBP 10	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS 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_A=25℃	$I_{F(AV)}$	2.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	50							A
Maximum instantaneous forward voltage @2.0A	V_F	1.1							V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	10 1.0							μ A mA
Operating junction temperature range	T_J	- 55 ---- + 125							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

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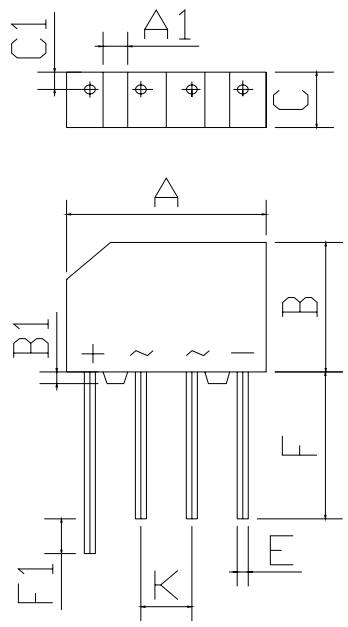
PACKAGE OUTLINE DIMENSIONS



KBP		
Dim	Min	Max
A	14.50	14.90
A1	1.60 Typical	
B	11.10	11.50
B1	1.00Typical	
C	3.90	3.70
C1	1.20Typical	
E	Ø0.70	Ø0.90
F	13.00min	
F1	2.00min	
K	3.40	4.00
All Dimensions in mm		

PACKAGE INFORMATION

Device	Package	Shipping
KBP005--KBP10	KBP	500 Units/Box

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FIG.1 -- PEAK FORWARD SURGE CURRENT

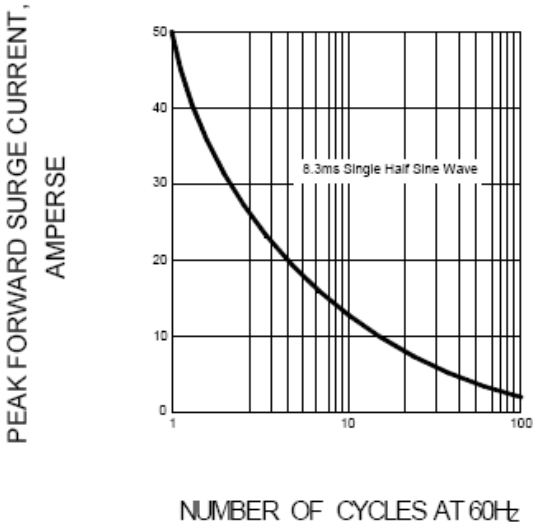

FIG.2 – FORWARD DERATING CURVE OUTPUT RECTIFIED CURRENT

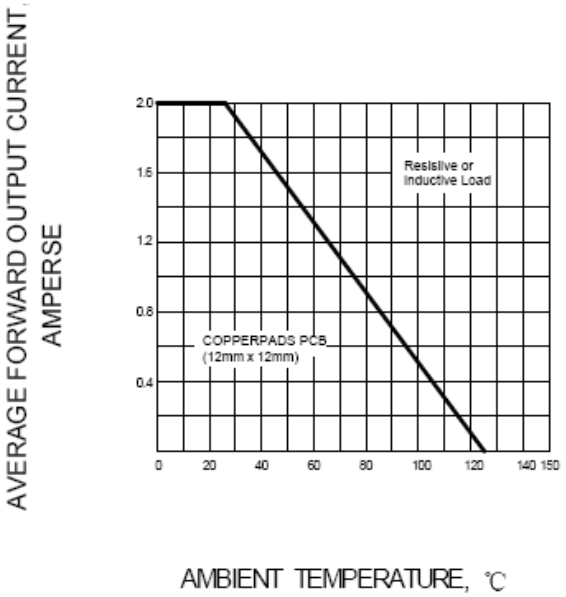

FIG.3 -- TYPICAL FORWARD CHARACTERISTIC

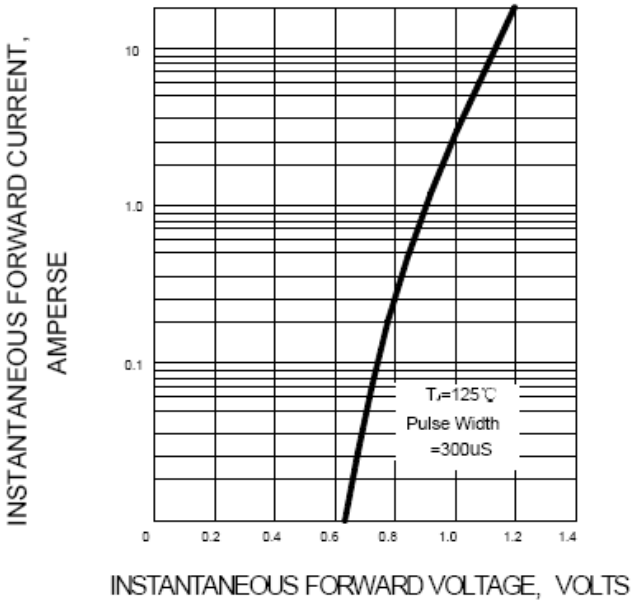

FIG.4 – TYPICAL REVERSE CHARACTERISTIC