KBP2005-KBP210

Silicon Bridge Rectifiers

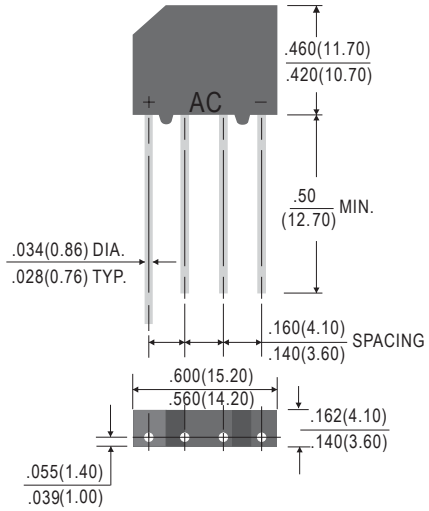
VOLTAGE RANGE: 50 --- 1000 V

CURRENT: 2.0 A

KBP

Features

- ◇ 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: 0.050 ounces,1.42 grams
- ◇ Glass passivated chip junctions



Dimensions in millimeters

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 2005	KBP 201	KBP 202	KBP 204	KBP 206	KBP 208	KBP 210	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 forw ard Output current @T_A=25℃	$I_{F(AV)}$	2.0							A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load	I_{FSM}	50.0							A
I²t Rating for fusing @Tj=25℃	I²t	10.4							A²S
Maximum instantaneous forw ard voltage @ 2.0 A	V_F	1.1							V
Maximum reverse current @T_A=25℃	I_R	10.0							μA
at rated DC blocking voltage @T_A=100℃		1.0							m A
Typical Thermal Resistance (Note)	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	25 5 8							°C/W
Operating junction temperature range	T_J	- 55 ---- + 150							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

Ratings AND Charactieristic Curves

FIG.1 -- PEAK FORWARD SURGE CURRENT

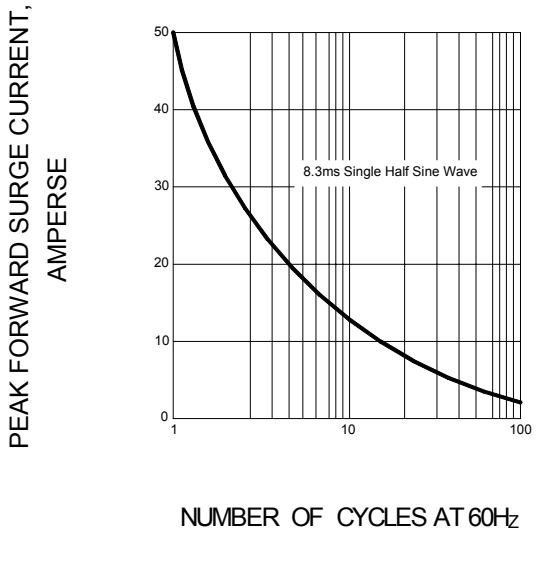


FIG.2 -- FORWARD DERATING CURVE
OUTPUT RECTIFIED CURRENT

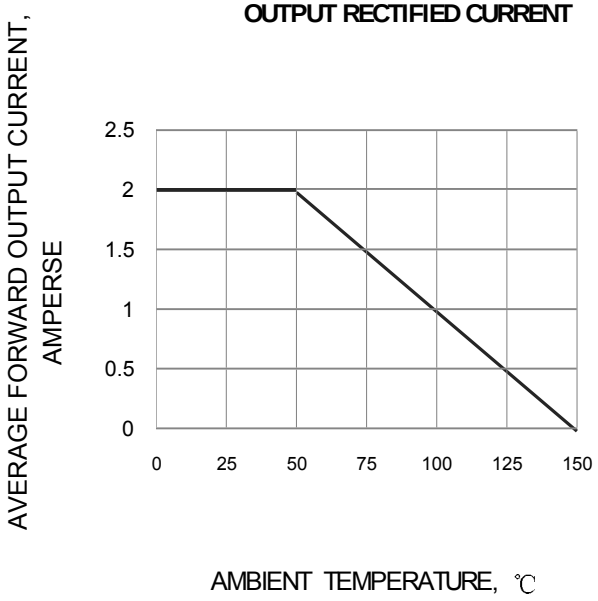


FIG.3 -- TYPICAL FORWARD CHARACTERISTIC

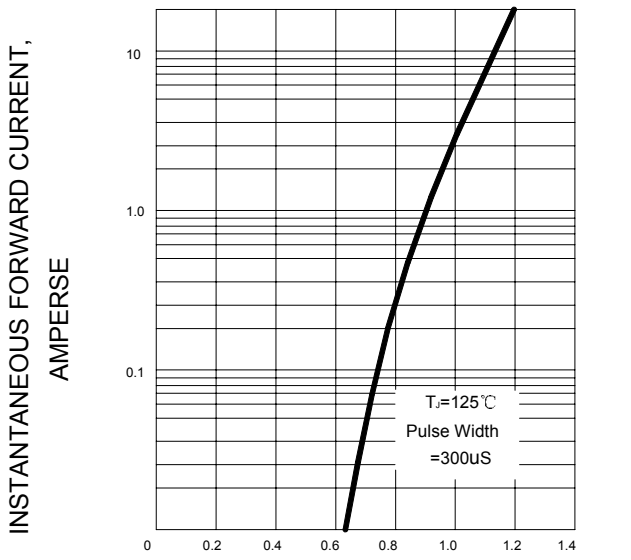


FIG.4 -- TYPICAL REVERSE CHARACTERISTIC