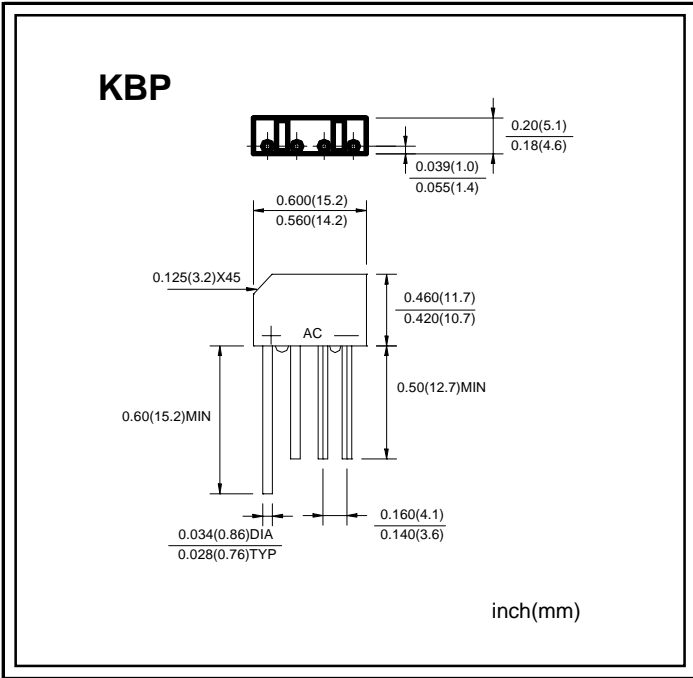


**SILICON BRIDGE RECTIFIERS**

**VOLTAGE RANGE: 50 --- 1000 V**  
**CURRENT: 2.0 A**

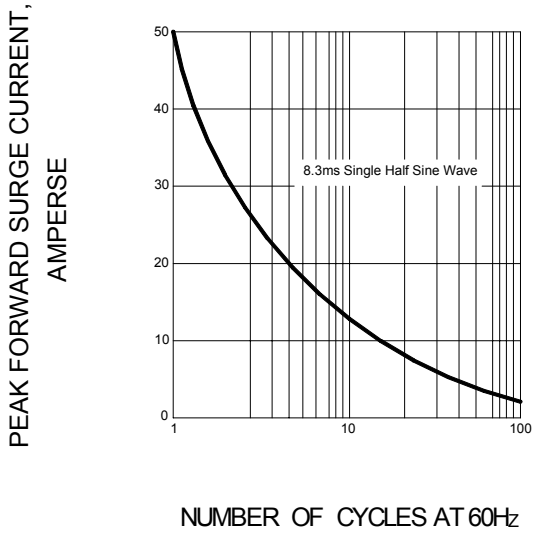
- FEATURES**
- ◇ Rating to 1000V PRV
  - ◇ Surge overload rating to 50 Amperes peak
  - ◇ Ideal for printed circuit board
  - ◇ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
  - ◇ Lead solderable per MIL-STD-202 method 208
  - ◇ Plastic material has UL flammability classification 94V-O
  - ◇ Weight: 0.050 ounces, 1.42 grams
  - ◇ Glass passivated chip junctions



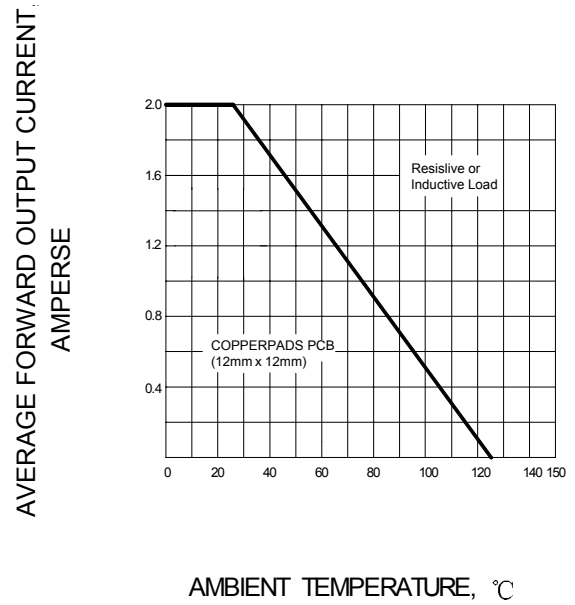
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**  
 Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		KBP005	KBP01	KBP02	KBP04	KBP06	KBP08	KBP10	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 @ $T_A=25^\circ C$	$I_{F(AV)}$	2.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	50.0							A
Maximum instantaneous forward voltage @ 2.0 A	$V_F$	1.1							V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	$I_R$	10.0 1.0							$\mu A$ mA
Operating junction temperature range	$T_J$	- 55 ---- + 125							°C
Storage temperature range	$T_{STG}$	- 55 ---- + 150							°C

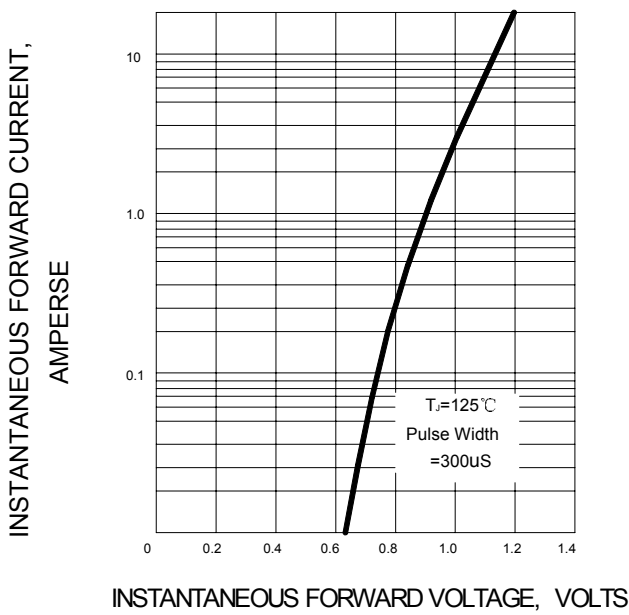
**FIG.1 – PEAK FORWARD SURGE CURRENT**



**FIG.2 – FORWARD DERATING CURVE  
OUTPUT RECTIFIED CURRENT**



**FIG.3 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 – TYPICAL REVERSE CHARACTERISTIC**

