



# KBP2005G THRU KBP210G

## SINGLE PHASE SILICON BRIDGE RECTIFIER

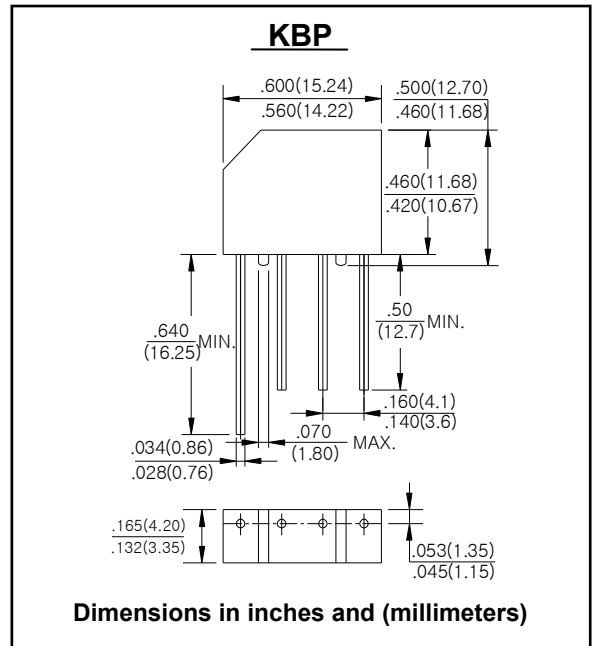
Reverse Voltage - 50 to 1000 Volts    Forward Current - 2.0 Ampere

### FEATURES

- Glass Passivated Die Construction
- Ideal for printed circuit board
- Surge overload rating: 60A peak
- High case dielectric strength
- High temperature soldering guaranteed:  
260°C/10 seconds at 5lbs. (2.3kg) tension

### MECHANICAL DATA

- Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
- Terminals: Plated leads solderable per MIL-STD 202, method 208
- Mounting Position: Any
- Weight: 1.70 g
- Marking: Type Number



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

CHARACTERISTICS		SYMBOL	KBP2005G	KBP201G	KBP202G	KBP204G	KBP206G	KBP208G	KBP210G	UNITS
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current at T <sub>A</sub> = 25°C		I <sub>O</sub>	2.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I <sub>FSM</sub>	60							A
Maximum DC Forward Voltage Drop per Bridge Element at 2.0A DC		V <sub>F</sub>	1.1							V
Maximum Reverse Current at rated DC Blocking Voltage per element	@T <sub>A</sub> = 25°C	I <sub>R</sub>	10.0							μA
	@T <sub>A</sub> = 125°C		500							
Operating and Storage Temperature Range		T <sub>J</sub> , T <sub>STG</sub>	-55 to + 150							°C

Note1) Marking Code "G" : Glass Passivated Die Construction



# KBP2005G THRU KBP210G

## RATINGS AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE  
OUTPUT RECTIFIED CURRENT

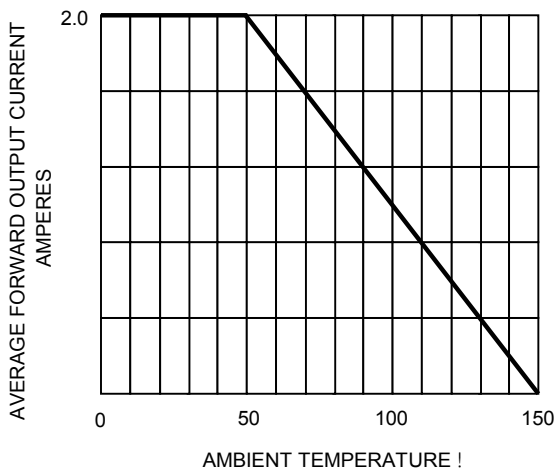


FIG.2-TYPICAL FORWARD  
CHARACTERISTICS

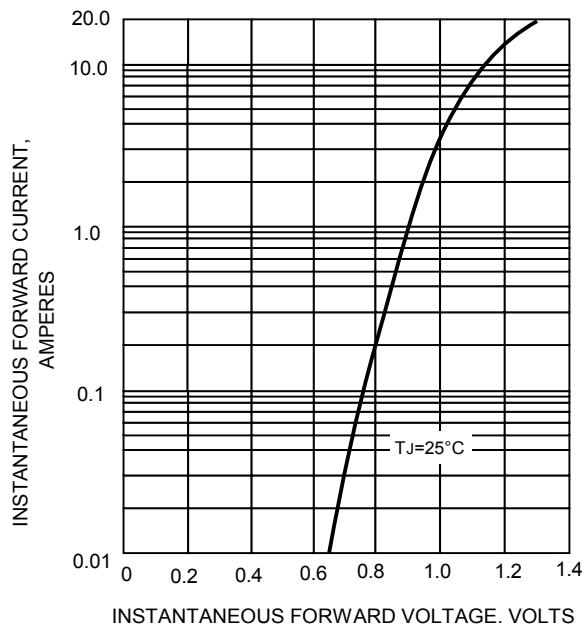


FIG.3-TYPICAL REVERSE CHARACTERISTICS

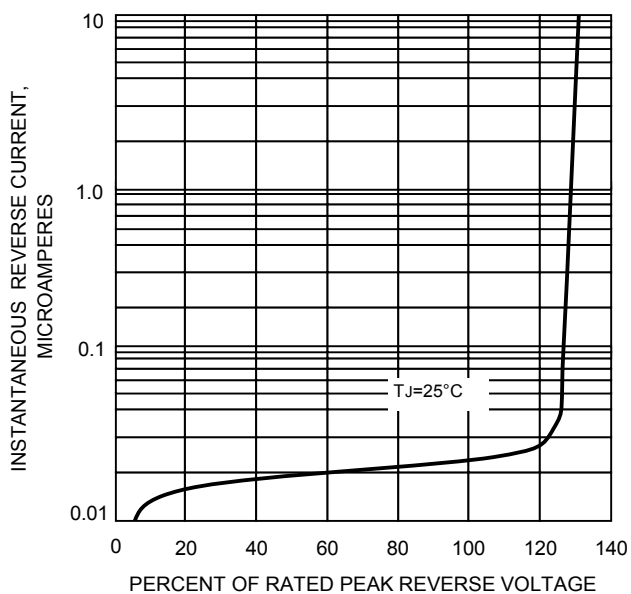


FIG.4-MAXIMUM FORWARD SURGE CURRENT

