



# CHENMKO ENTERPRISE CO.,LTD

Lead free devices

## SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 2.0 Amperes

**KBP200PT  
THRU  
KBP2010PT**

### FEATURES

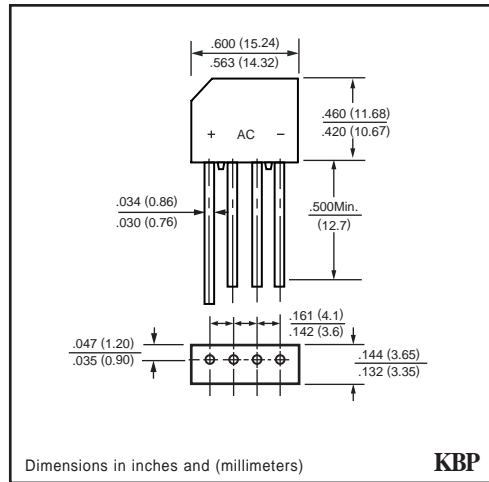
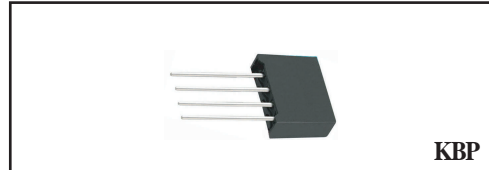
- \* Ideal for printed circuit board
- \* Surge overload rating - 60 Amperes peak
- \* Plastic material used carries Underwriters Laboratory Recognition
- \* Exceeds environmental standards of MIL-STD-19500

### MECHANICAL DATA

**Case:** JEDEC KBP molded plastic  
**Mounting position:** Any  
**Polarity:** Polarity symbols marked on body

### 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%.



### MAXIMUM RATINGS ( At TA = 25°C unless otherwise noted )

RATINGS	SYMBOL	KBP200PT	KBP201PT	KBP202PT	KBP204PT	KBP206PT	KBP208PT	KBP2010PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	I <sub>o</sub>	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	60							Amps
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

### ELECTRICAL CHARACTERISTICS ( At TA = 25°C unless otherwise noted )

CHARACTERISTICS	SYMBOL	KBP200PT	KBP201PT	KBP202PT	KBP204PT	KBP206PT	KBP208PT	KBP2010PT	UNITS
Maximum Instantaneous Forward Voltage at 1.0 A DC	V <sub>F</sub>	1.0							Volts
Maximum Reverse Current at rated	I <sub>R</sub>	10							uAmps
DC blocking Voltage per element		0.2							mAmps

## RATING CHARACTERISTIC CURVES ( KBP200PT THRU KBP2010PT )

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

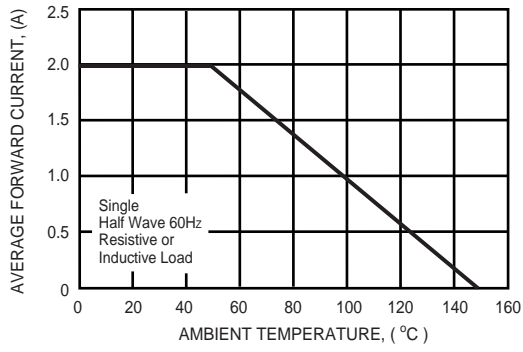


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

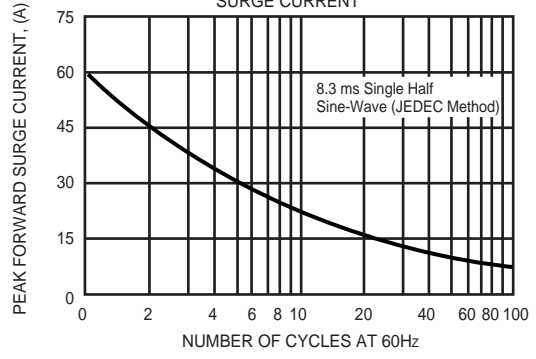


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

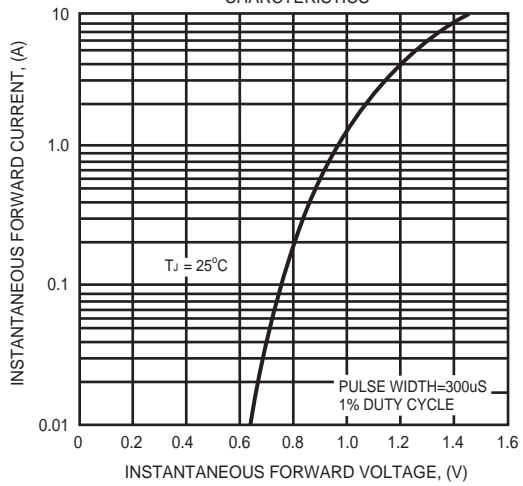


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

