

# KBPM3005G THRU KBPM310G

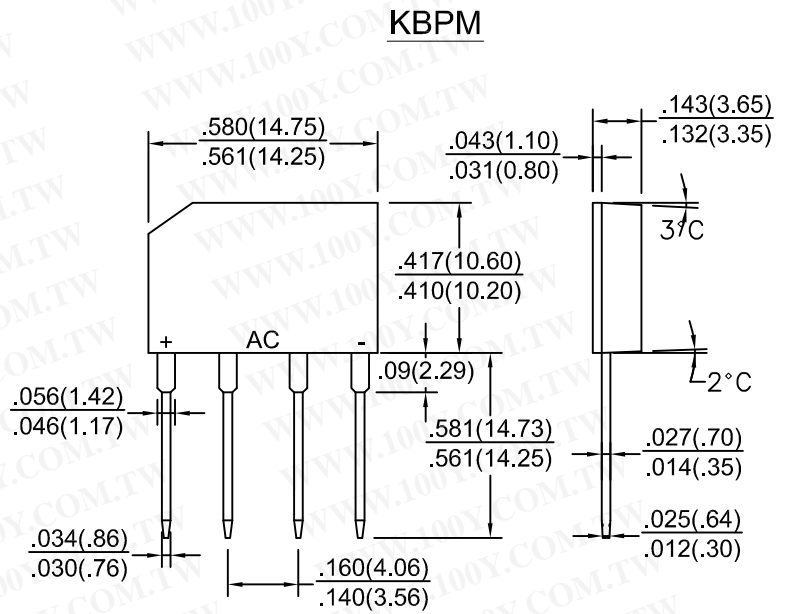
## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

### FEATURES:

- Rating to 1000V PRV
- Surge overload rating to 80 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Plastic material has U/L Flammability Classification 94V-0

### MECHANICAL DATA

Terminals : Lead solderable per MIL-STD-202,  
Method 208  
Leads : Tin plated copper  
Weight : 1.33 grams  
Mounting Position : Any



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

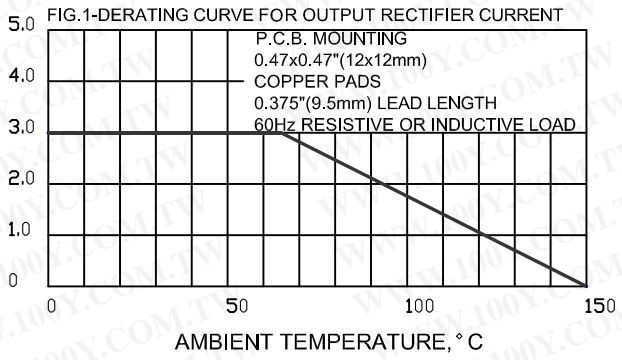
Rating at 25° C ambient temp. unless otherwise specified.  
Single phase, half sine, wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20 %.

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-54151736  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

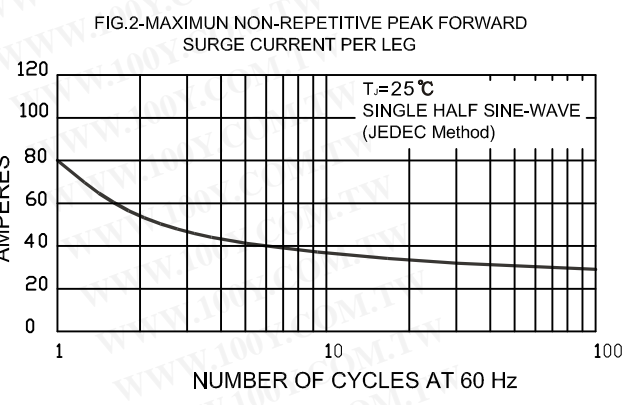
Characteristic	Symbol	KBPM	KBPM	KBPM	KBPM	KBPM	KBPM	KBPM	Units
		3005G	301G	302G	304G	306G	308G	310G	
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>		100		400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at Ta=65° C	I <sub>O</sub>	3.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	80.0							Amps
Maximum DC forward voltage drop per leg at 3.0 A DC	V <sub>F</sub>	1.1							Volts
Maximum DC reverse current Ta=25° C at rated DC blocking voltage Ta=125° C	I <sub>R</sub>	5.0 500.0							μ A
Typical junction capacitance	C <sub>j</sub>	25							pF
Typical thermal resistance	R <sub>th-JA</sub>	14							° C/W
Operating junction and storage temperature range	T <sub>j</sub> , T <sub>stg</sub>	-55 to +150							° C

# RATINGS AND CHARACTERISTIC CURVES KBPM3005G THRU KBPM310G

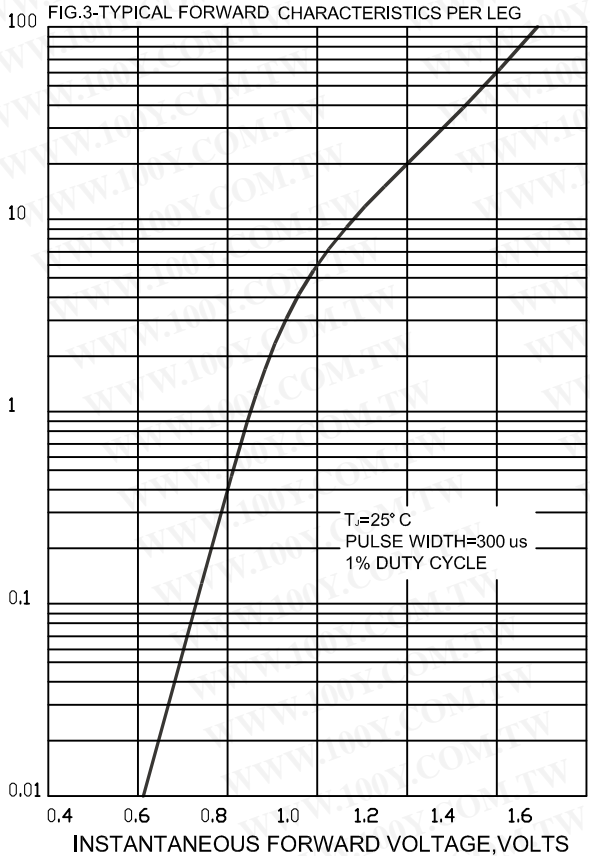
AVERAGE FORWARD CURRENT, AMPERES



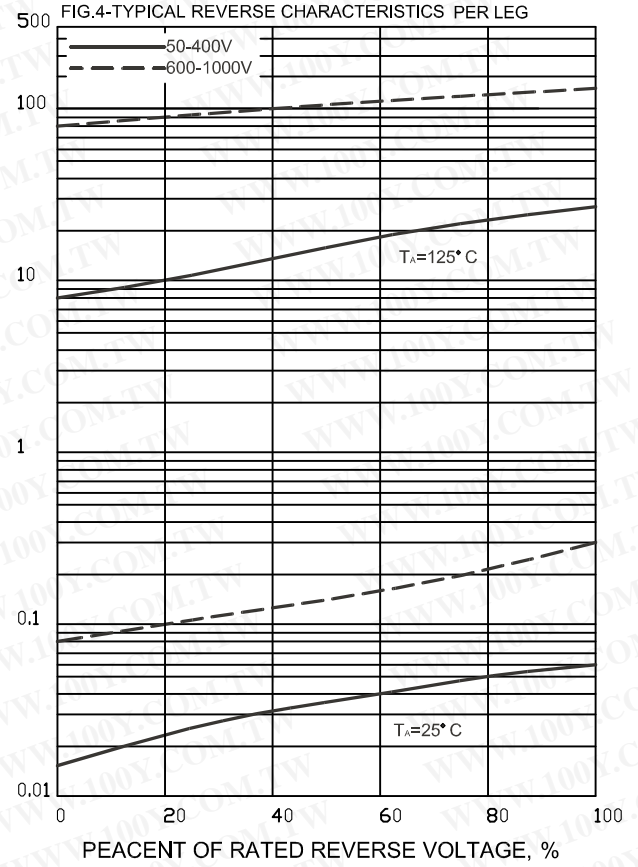
PEAK FORWARD SURGE CURRENT, AMPERES



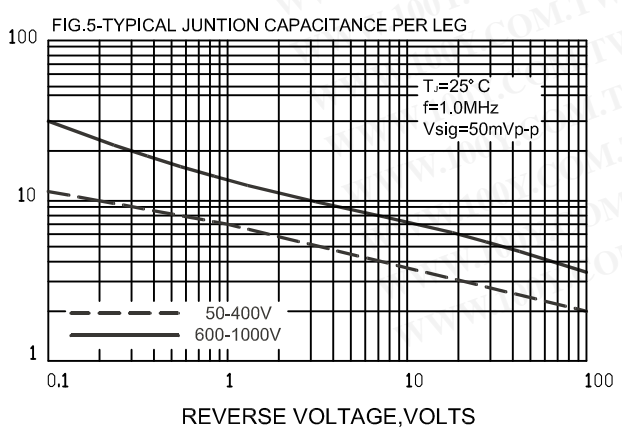
INSTANTANEOUS FORWARD CURRENT, AMPERES



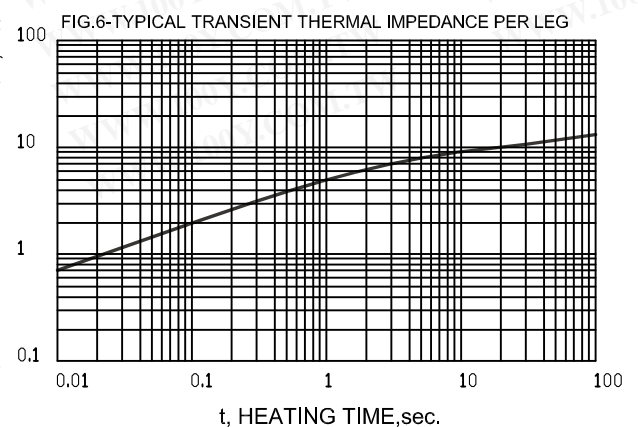
INSTANTANEOUS REVERSE CURRENT, MICROAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE, °C/W



勝特力材料 86-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)