

KBPM005G THRU KBPM10G

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES:

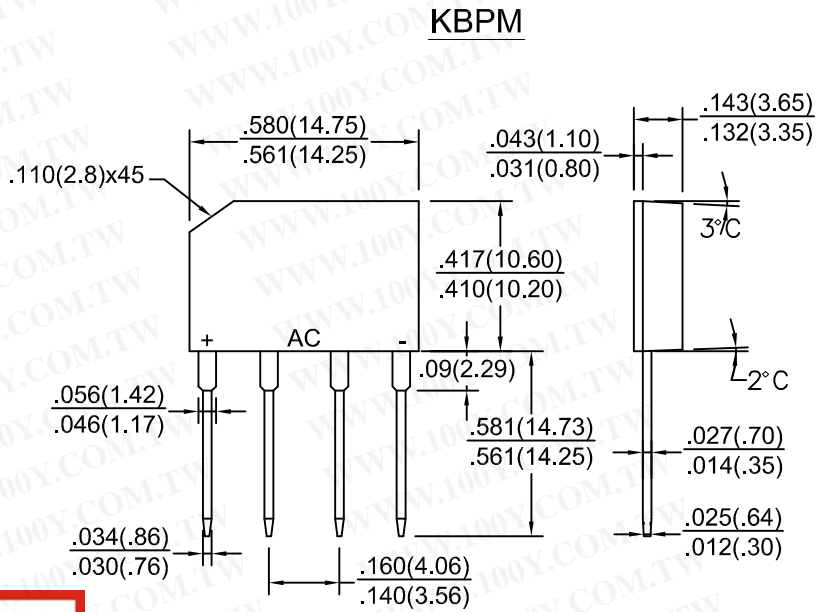
- Rating to 1000V PRV
- Surge overload rating to 50 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Plastic material has U/L Flammability Classification 94V-0

MECHANICAL DATA

Terminals : Lead solderable per MIL-STD-202,
Method 208

Leads : Tin plated copper

Weight : 1.33 grams



Dimensions in inches and (millimeters)

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)

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 %.

| Characteristic | Symbol | KBPM | KBPM | KBPM | KBPM | KBPM | KBPM | KBPM | Units |
|--|-----------------------------------|--------------|------|------|------|------|------|------|-------|
| | | 005G | 01G | 02G | 04G | 06G | 08G | 10G | |
| Maximum recurrent peak reverse voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC blocking voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum average forward rectified current at Ta=50° C | I _O | 1.5 | | | | | | | Amps |
| Peak forward surge current .8.3ms single half sine-wave superimposed on rated load(JEDEC Method) | I _{FSM} | 50.0 | | | | | | | Amps |
| Maximum instantaneous forward voltage drop per leg at 1.5A DC | V _F | 1.1 | | | | | | | Volts |
| Maximum DC reverse current at rated DC blocking voltage Ta=25° C Ta=125° C | I _R | 5.0 500.0 | | | | | | | μ A |
| Typical junction capacitance | C _j | 20 | | | | | | | pF |
| Typical thermal resistance | R _{th-JC} | 18 | | | | | | | ° C/W |
| Operating junction and storage temperature range | T _j , T _{stg} | -55 to +150 | | | | | | | ° C |

RATINGS AND CHARACTERISTIC CURVES KBPM005G THRU KBPM10G

FIG.1-DERATING CURVE OUTPUT RECTIFIER CURRENT

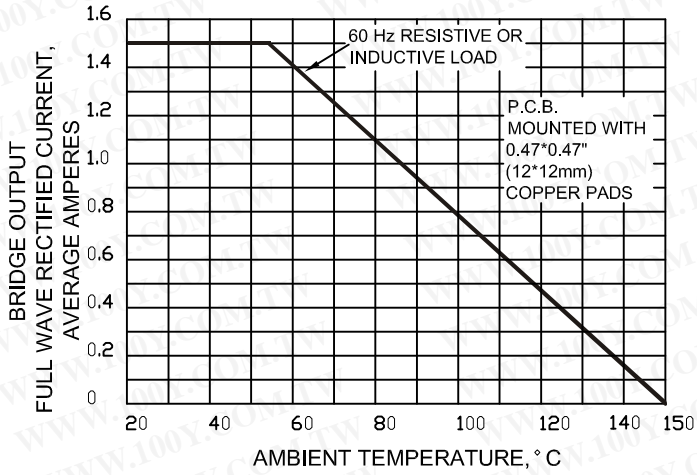


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

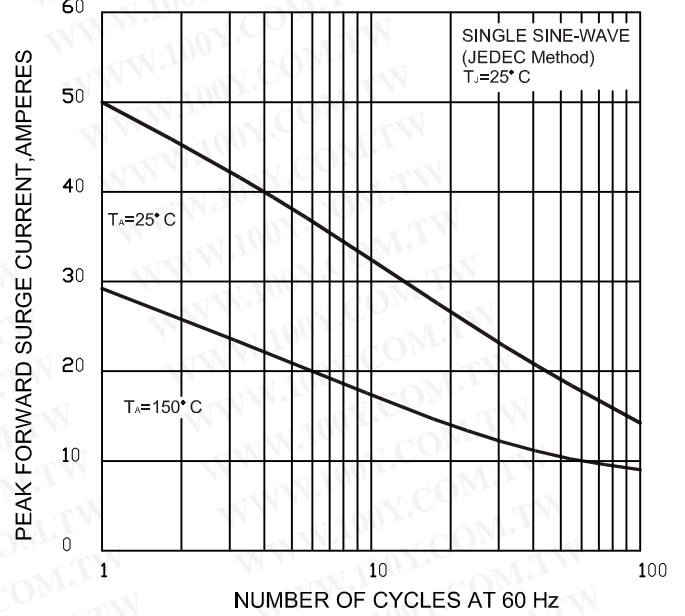
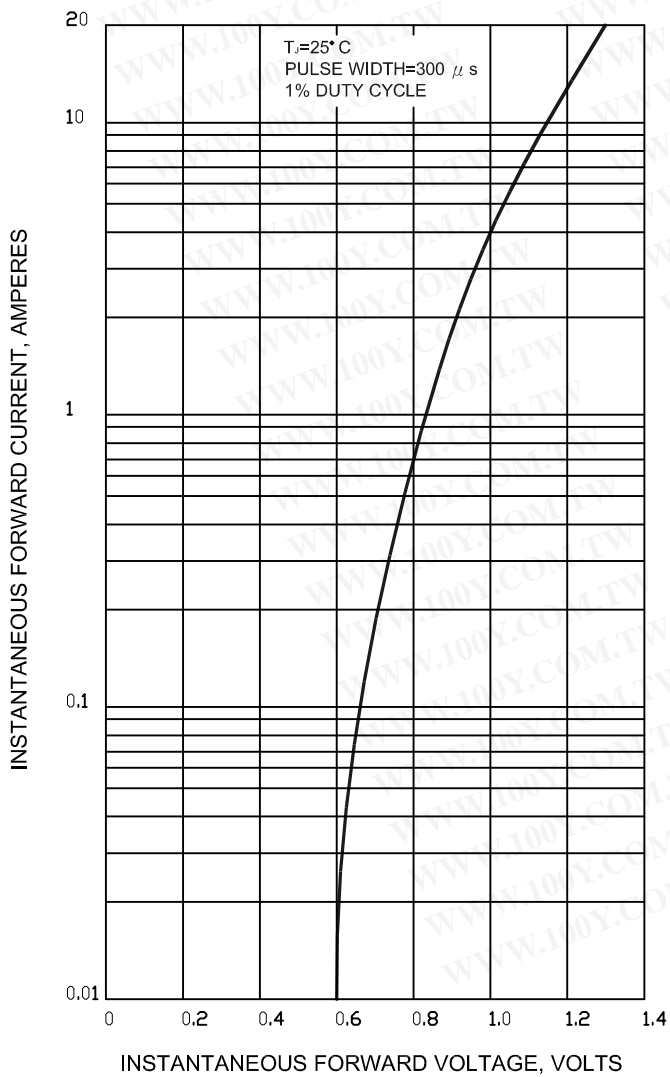


FIG.3-TYPICAL FORWARD CHARACTERISTICS PER LEG



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FIG.4-TYPICAL JUNCTION CAPACITANCE PER LEG

