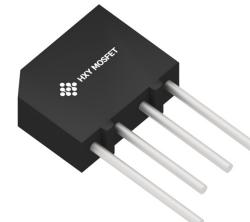


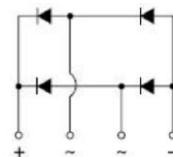


Features

- This series is UL listed under the Recognized Component Index, file number E142814
- Ideal for printed circuit board mounting
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High temperature soldering guaranteed 265°C /10 seconds at 5 lbs (2.3kg) tension



KBP



Package Marking and Ordering Information

| Product ID | Pack | Marking | Qty(PCS) |
|------------|------|---------|----------|
| KBP206G | KBP | KBP206 | 500 |

Maximum Ratings (Ta=25°C unless otherwise noted)

| Parameter | Symbol | KBP 2005 | KBP 201 | KBP 202 | KBP 204 | KBP 206 | KBP 208 | KBP 210 | Unit |
|---|------------------|----------|---------|---------|--------------|---------|---------|---------|--------------------|
| Maximum repetitive peak reverse voltage | VRRM | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS bridge input voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forward rectified output current at TA=100°C | IF(AV) | | | | | 2 | | | A |
| Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method) | IFSM | | | | 60 | | | | A |
| Rating for fusing (t<8.3ms) | I ² t | | | | 15 | | | | A ² sec |
| Typical thermal resistance per element(1) | ReJA | | | | 10 | | | | °C / W |
| Operating junction and storage temperature range | TJ, TSTG | | | | -55 to + 150 | | | | °C |

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
For Capacitive load derate by 20 %.

| Parameter | Symbol | KBP 2005 | KBP 201 | KBP 202 | KBP 204 | KBP 206 | KBP 208 | KBP 210 | Unit |
|---|--------|----------|---------|-----------|---------|---------|---------|---------|------|
| Maximum instantaneous forward voltage drop per leg at 2.0A | VF | | | 1.1 10 | | | | | V |
| Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C | IR | | | | 1000 | | | | μA |

Notes: (1)Thermal resistance from Junction to Ambient on P.C.board mounting.



Rating and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig. 1 Derating Curve for
Output Rectified Current

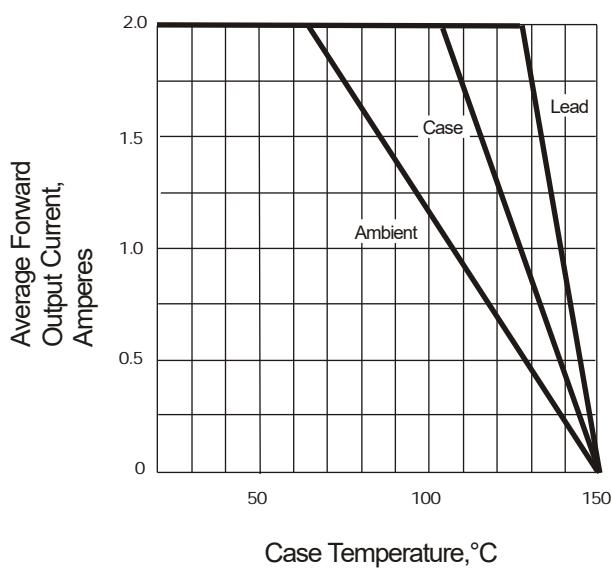


Fig. 3 Typical Instantaneous
Forward Characteristics

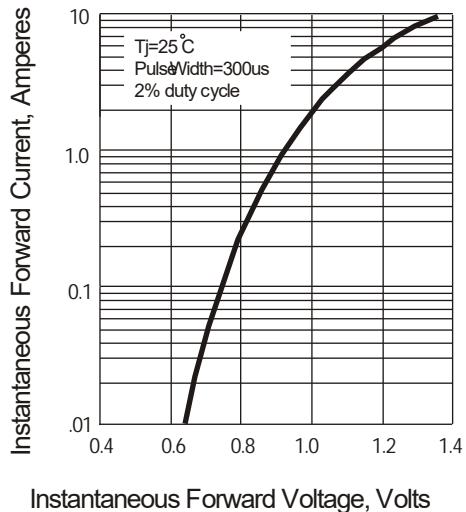


Fig. 2 Maximum Non-repetitive Peak
Forward Surge Current

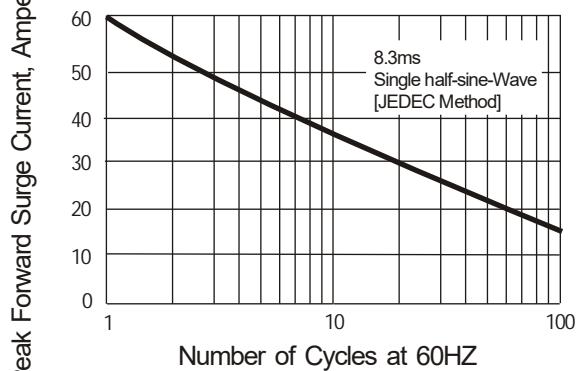


Fig. 4 Typical Reverse
Characteristics

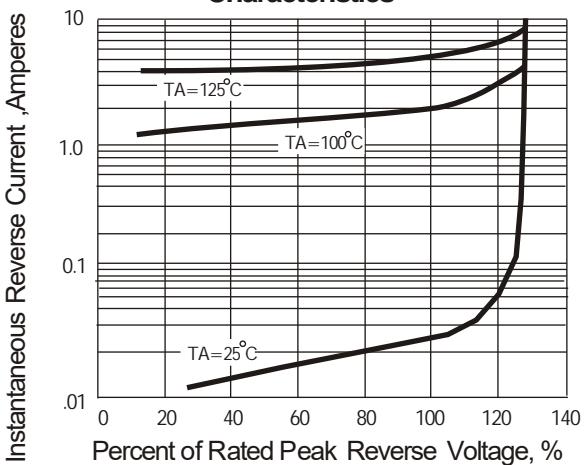
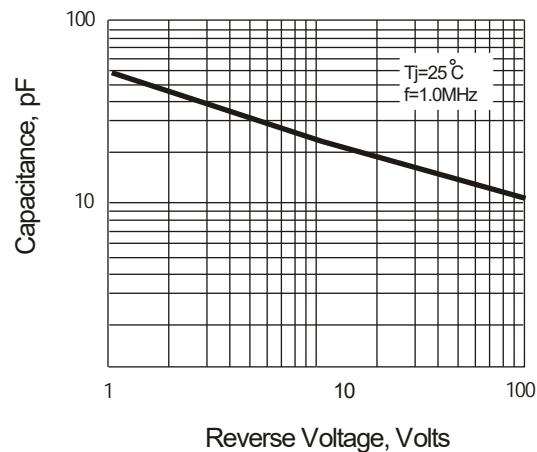
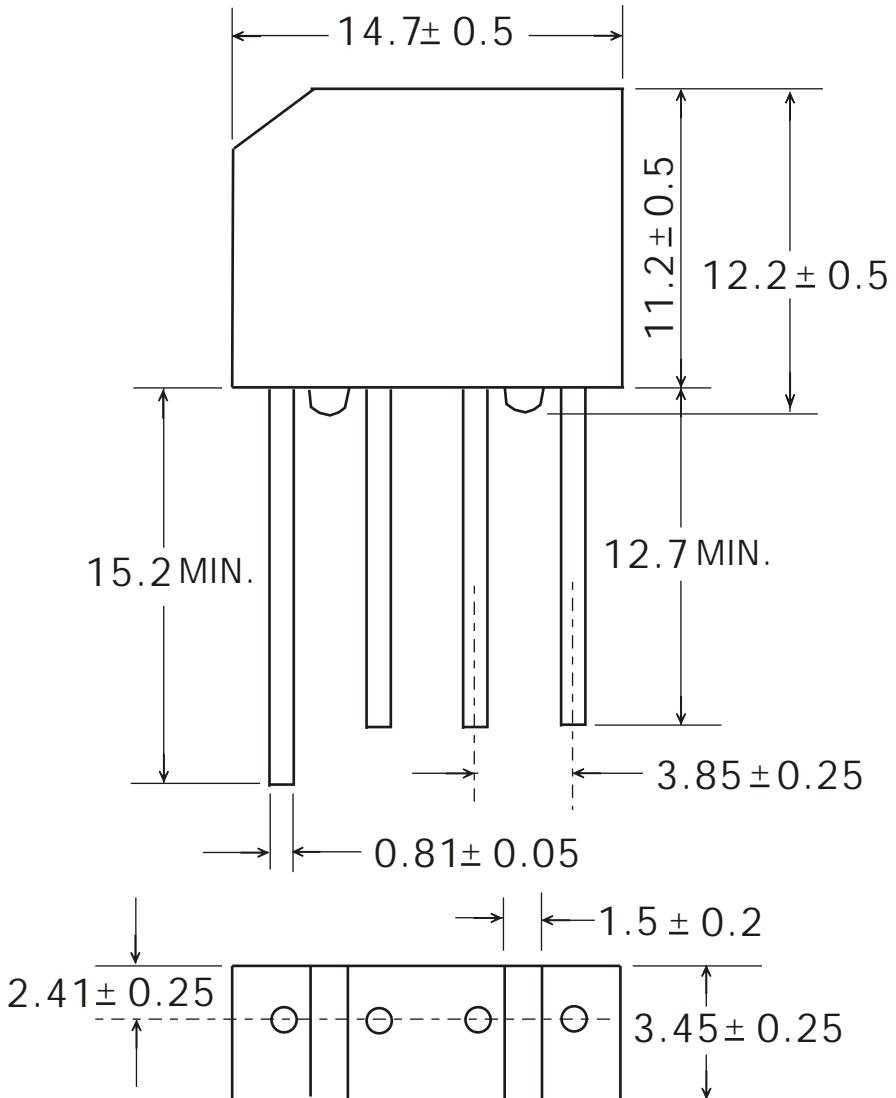


Fig. 5 Typical Junction Capacitance





KBP Package Outline Dimensions



Dimensions in millimeters (1mm = 0.0394")



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