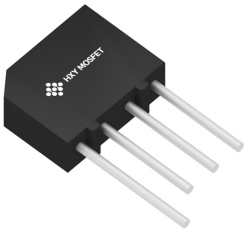
# S-KBP210G-TU-LT
Plastic-Encapsulate Bridge Rectifier

## Features

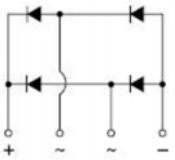
- This series is UL listed under the Recognized Component Index, file number E142814
- Ideal for printed circuit board mounting
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High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



**KBP**

## Ordering Information

| Product ID | Pack | Qty(PCS) |
|---|---|---|
| S-KBP210G-TU-LT | KBP | 500 |




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

| Parameter | Symbol | KBP210G | Unit |
|---|---|---|---|
| Maximum repetitive peak reverse voltage | VRRM | 1000 | V |
| Maximum RMS bridge input voltage | VRMS | 700 | V |
| Maximum DC blocking voltage | VDC | 1000 | V |
| Maximum average forward rectified output current at TA=50°C | IF(AV) | 2.0 | A |
| Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method) | IFSM | 60 | A |
| Rating for fusing ( t<8.3ms) | $I^2t$ | 15.0 | $A^2sec$ |
| Typical thermal resistance per element (1) | ReJA | 10.0 | °C / W |
| Typical junction capacitance per element (2) | Cj | 25.0 | pF |
| 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 | KBP210G | Unit |
|---|---|---|---|
| Maximum instantaneous forward voltage drop per leg at 2.0A | VF | 1.1 | V |
| Maximum DC reverse current at rated TA =25°C<br>DC blocking voltage per element TA =125°C | IR | 10<br>500 | μA |

**Notes:** (1)Thermal resistance from Junction to Ambemt on P.C.board mounting.
(2)Measured at 2.0MHz and applied reverse voltage of 4.0 volts.

## Rating and Characteristic Curves ($T_A$=25°C unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

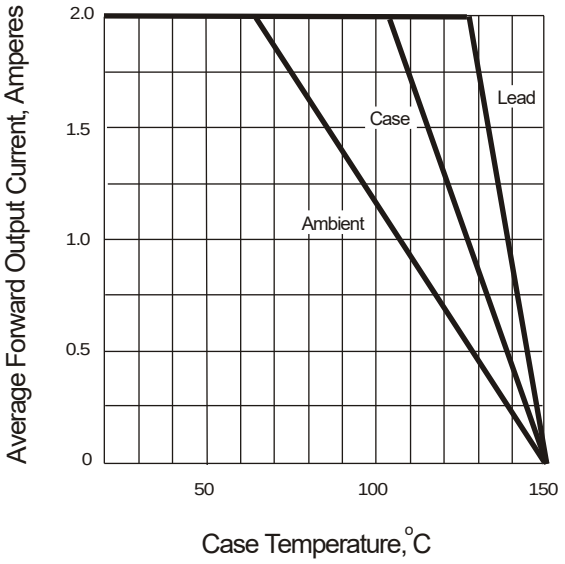



Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

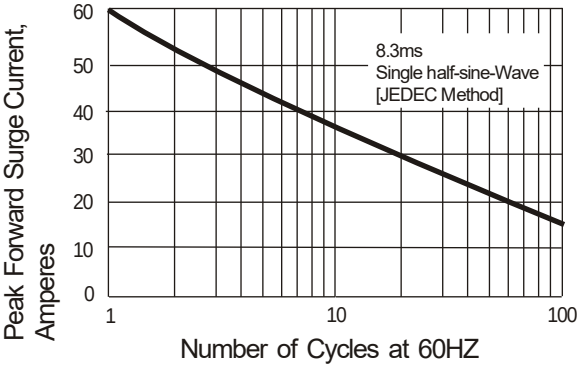



Fig. 3 Typical Instantaneous Forward Characteristics

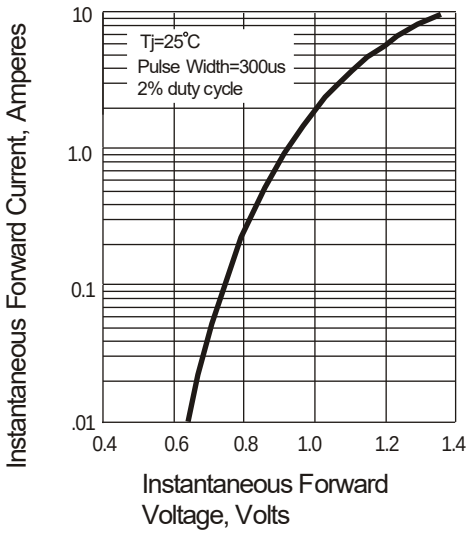



Fig. 4 Typical Reverse Characteristics

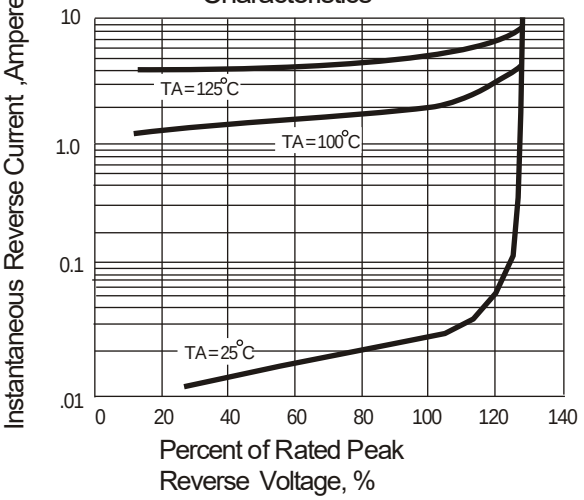
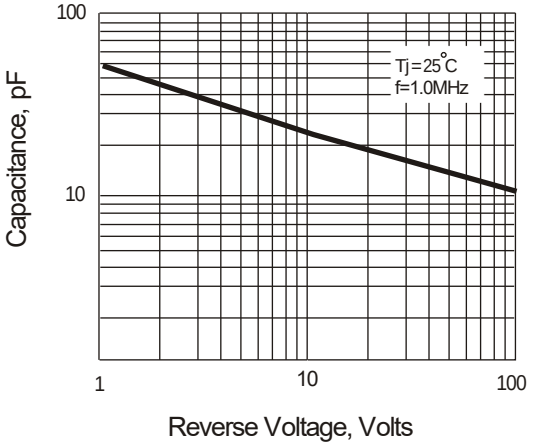
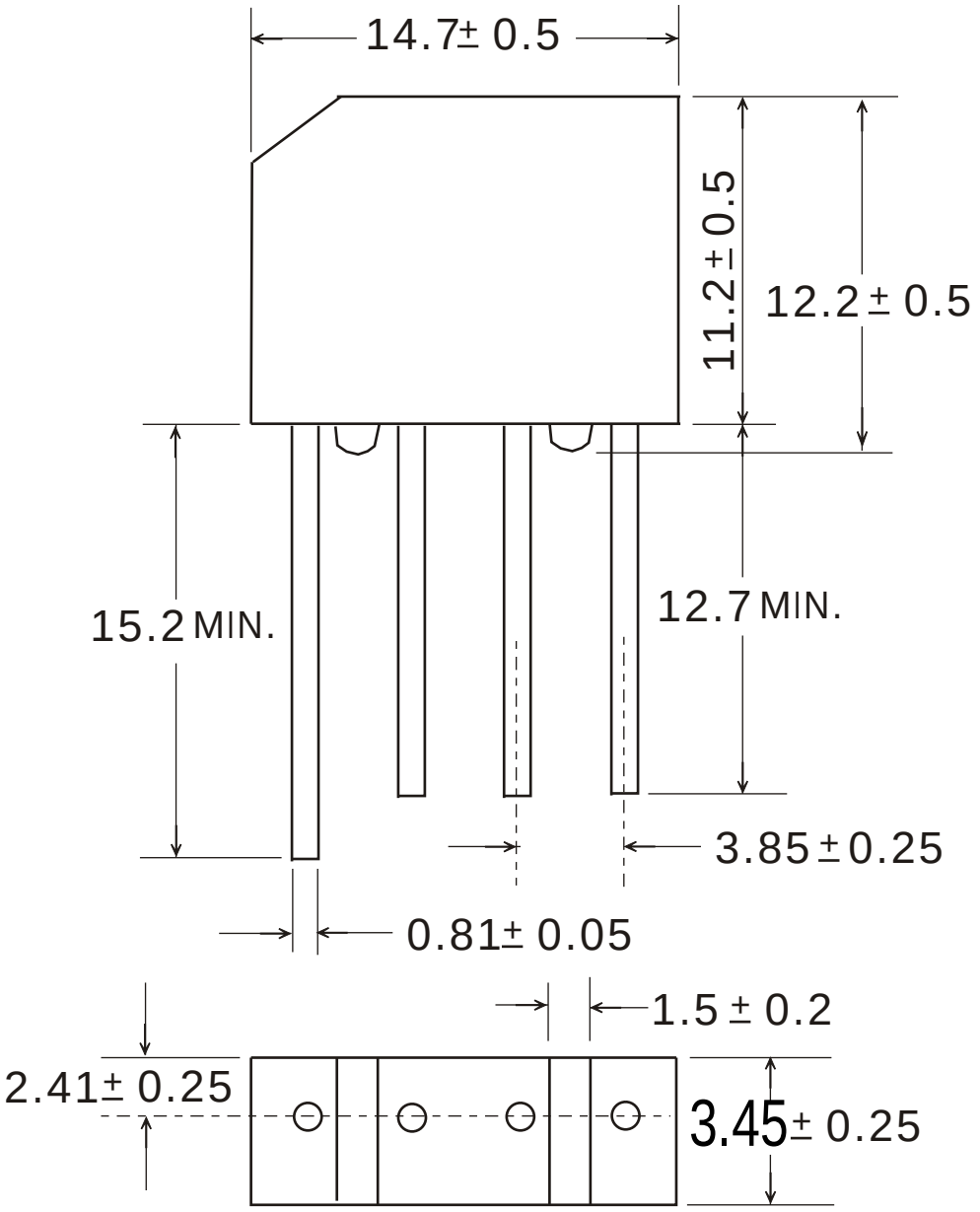



Fig. 5 Typical Junction Capacitance



**KBP Package Outline Dimensions**




Dimensions in millimeters(1mm =0.0394″)

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