鼎德丰 DING DE FENG

# KBP203 thru KBP209

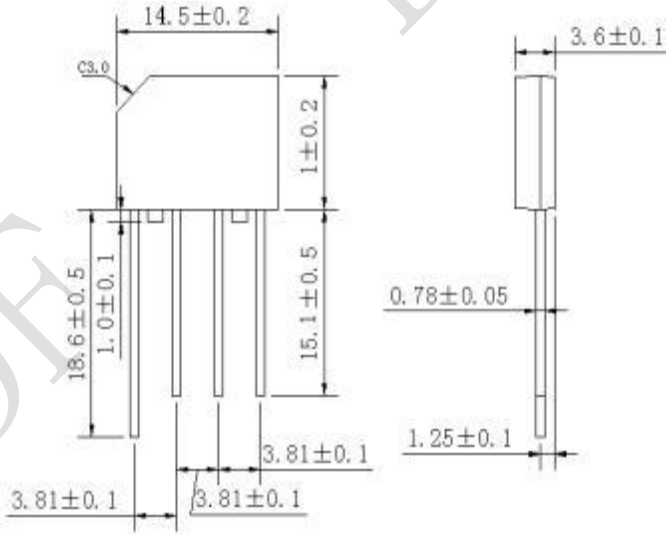
## 2 A single-phase Bridge Rectifier

Rectifier Reverse voltage50to 1000v

KBP

## Features

- This series is UL listed under the Recognized Component Index, file number E484648
- 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




Dimensions in millimeters (1mm =0.0394")

## Mechanical Data

Case: Reliable low cost construction utilizing molded plastic technique

Terminals: Plated leads solderable per MIL-STD-202, Method 208

Mounting position: Any

## Maximum Ratings & Thermal Characteristics

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

| Parameter | Symbol | | | KBP203 | KBP205 | KBP207 | KBP209 | | unit |
|---|---|---|---|---|---|---|---|---|---|
| Maximum repetitive peak reverse voltage | VRRM | | | 300 | 500 | 700 | 900 | | V |
| Maximum RMS bridge input voltage | VRMS | | | 140 | 280 | 420 | 560 | | V |
| Maximum DC blocking voltage | VDC | | | 300 | 500 | 700 | 900 | | V |
| Maximum average forward rectified output current at TA=40˚C | IF(AV) | 2 | | | | | | | A |
| Peak forward surge current single sine-wave superimposed on rated load (JE DEC Method) | IFSM | 30 | | | | | | | A |
| operating junction and storage temperature range | TJ, TSTG | -55to + 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 | | | KBP203 | KBP205 | KBP207 | KBP209 | | 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 | | | | | | | UA |

**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(TA=25 c unless otherwise noted)。

# KBP2005 thru KBP210

**Fig. 1 Derating Curve for Output Rectified Current**

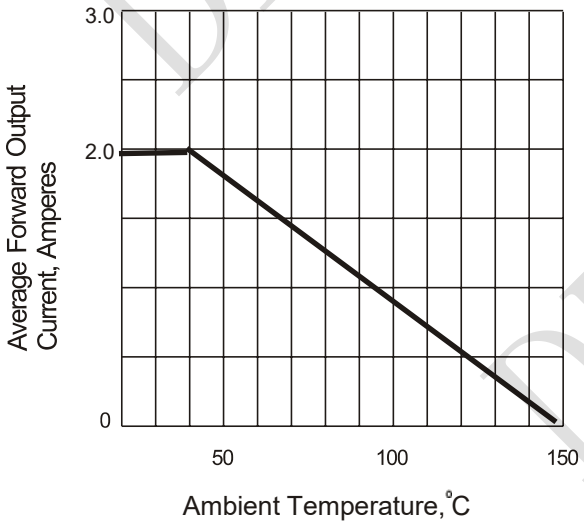



**Fig. 2 Maximum Non-repetitive Peak Forward Surge Current**

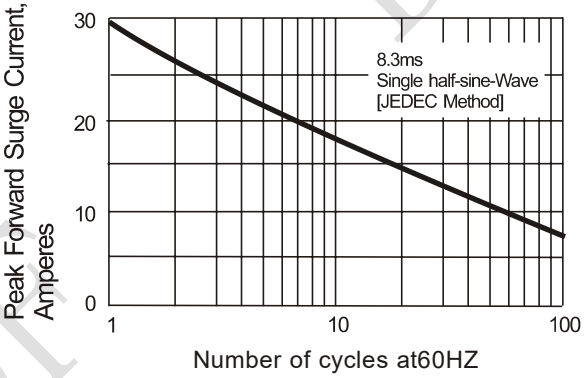



**Fig. 3 Typical Instantaneous Forward Characteristics**

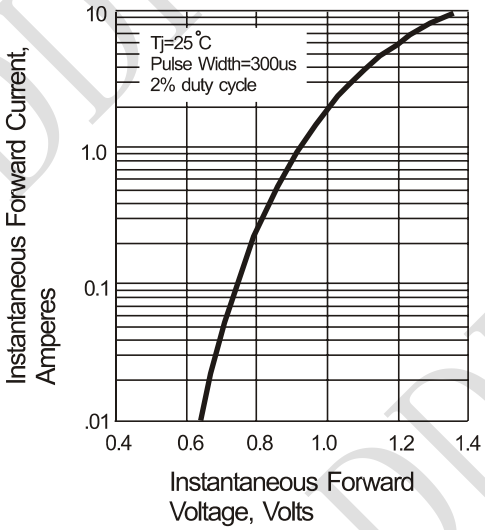



**Fig. 4 Typical Reverse Characteristics**

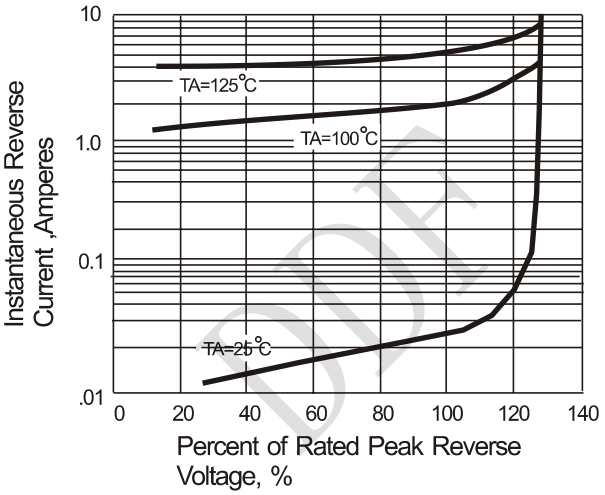



**Fig.5Typical Junction capacitance**