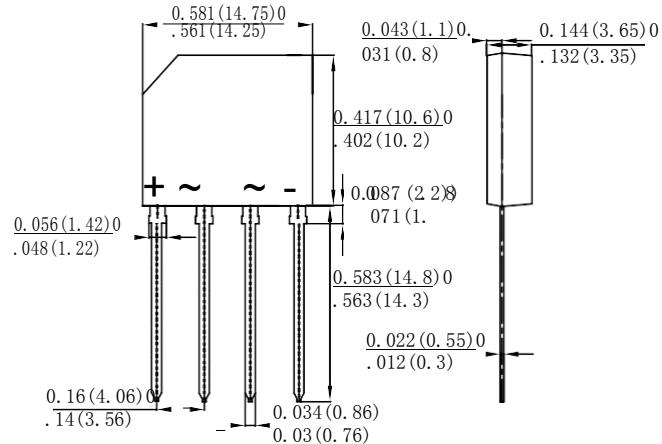


SINGLE BRIDGE RECTIFIERS

Features

- ◆ Glass Passivated Chip Junction
- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Ideal for printed circuit boards
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
- ◆ 260°C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension



Mechanical Data

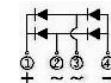
Case : JEDEC KBP Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.0693 ounce, 1.95 grams



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	RCD KBP2005	RCD KBP201	RCD KBP202	RCD KBP204	RCD KBP206	RCD KBP208	RCD KBP210	UNITS
Marking Code									
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward output rectified current at T _c =50°C (Note 2)	I _(AV)								A
Peak forward surge current 3.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}								A
Maximum instantaneous forward voltage drop per bridge element at 2.0A	V _F								V
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	I _R								µA mA
Typical Junction Capacitance (Note 1)	C _J								pF
Typical Thermal Resistance (Note 2)	R _{θJA} R _{θJC} R _{θJL}								°C/W
I ² t Rating for fusing (3ms ≤ t ≤ 8.3ms)	I ² t								
Operating junction temperature range	T _J								°C
storage temperature range	T _{STG}								°C

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
2. Thermal Resistance Junction to Case, Lead and Ambient.

DN:T21315A0

Fig.1 Forward Current Derating Curve

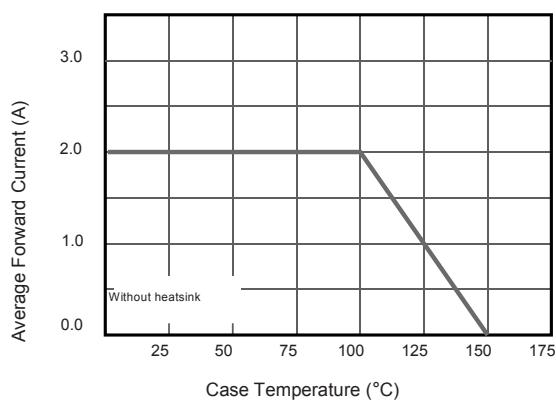


Fig.2 Typical Instantaneous Reverse Characteristics

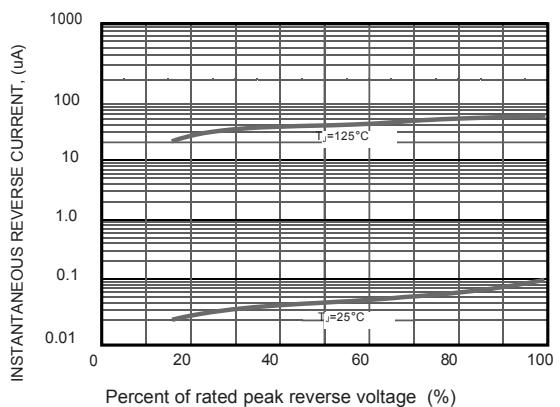


Fig.3 Typical Forward Characteristic

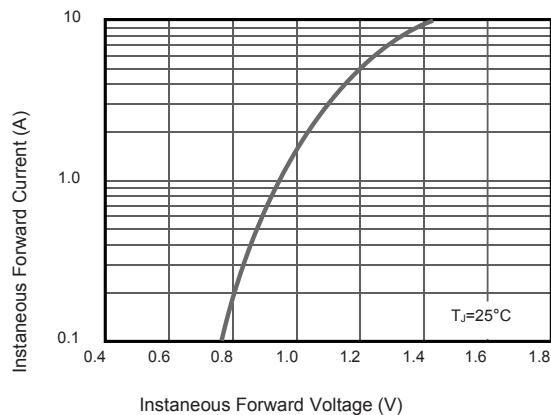


Fig.4 Typical Junction Capacitance

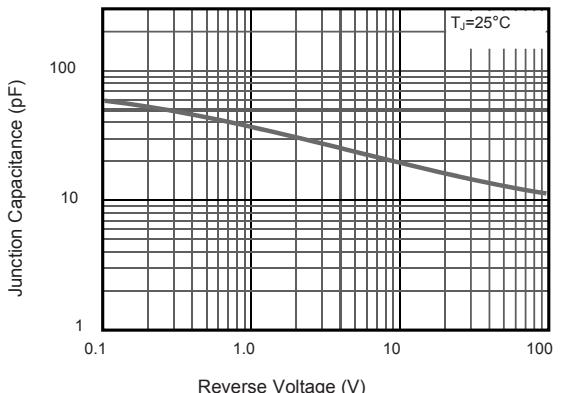


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

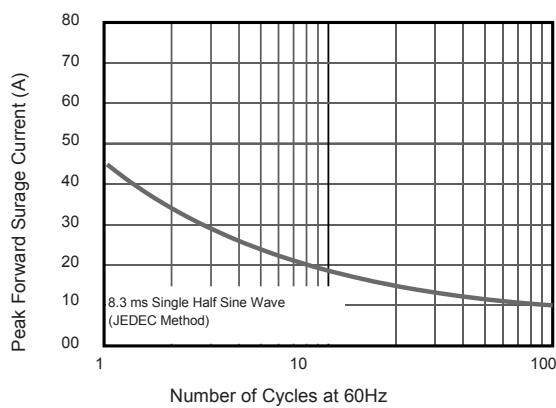


Fig.6- Typical Transient Thermal Impedance

