



## 2A Plug In Super Fast Recovery Rectifier Bridge

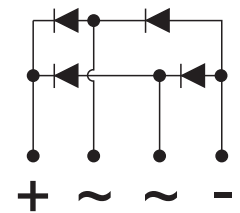
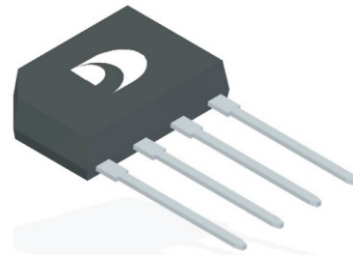
### FEATURES:

- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Forward Current - 2.0 A
- Super Fast reverse recovery time

### MECHANICAL DATA

- Polarity : As marked on body
- Weight : 0.05 ounces, 1.35 grams
- Mounting position : Any

KBP



### Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	KBPE201G	KBPE202G	KBPE204G	KBPE206G	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	V
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2				A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	$I_{FSM}$	50				A
Maximum Forward Voltage at 2 A	$V_F$	1.0		1.25	1.68	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25\text{ }^\circ\text{C}$ $T_a = 125\text{ }^\circ\text{C}$	$I_R$	5 100				$\mu\text{A}$
Typical Junction Capacitance (Note: 1)	$C_j$	40				pF
Maximum Reverse Recovery Time (Note: 2)	$t_{rr}$	35				ns
Typical Thermal Resistance (Note: 3)	$R_{\theta JA}$	60				$^\circ\text{C/W}$
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150				$^\circ\text{C}$

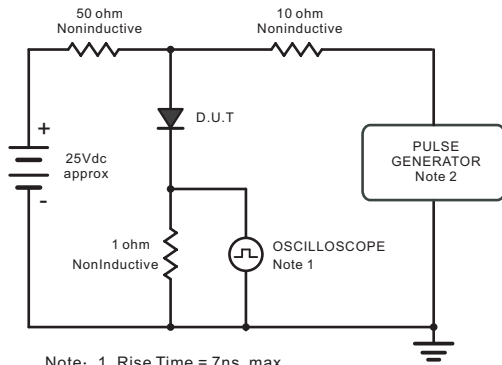
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Measured with  $I_F = 0.5\text{ A}$ ,  $I_R = 1\text{ A}$ ,  $I_{rr} = 0.25\text{ A}$ .

3. Mounted on glass epoxy PC board with  $4 \times 1.5'' \times 1.5''$  (3.81×3.81 cm) copper pad.



Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



Note: 1. Rise Time = 7ns, max.  
Input Impedance = 1megohm, 22pF.  
2. Rises Time = 10ns, max.  
Source Impedance = 50 ohms.

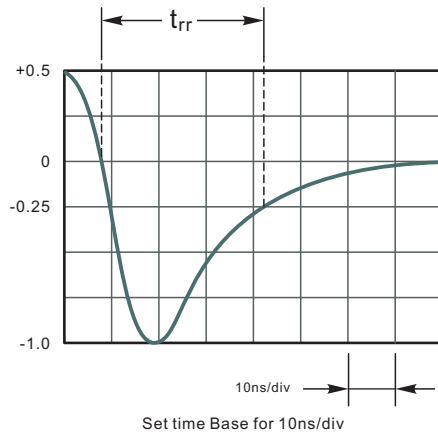


Fig.2 Maximum Average Forward Current Rating

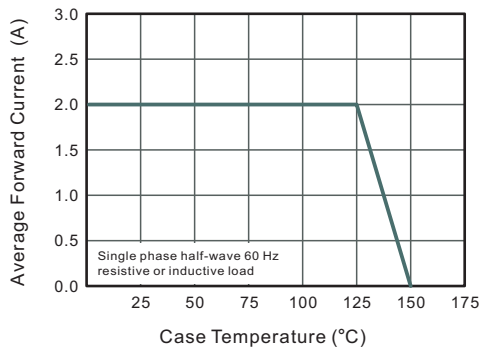


Fig.3 Typical Reverse Characteristics

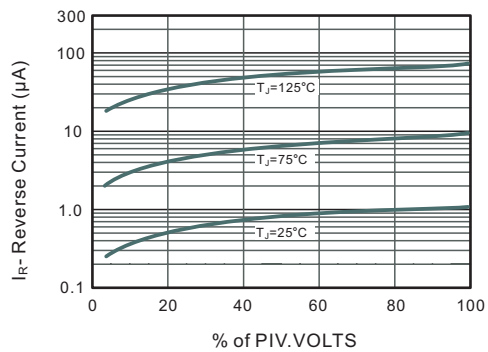


Fig.4 Typical Forward Characteristics

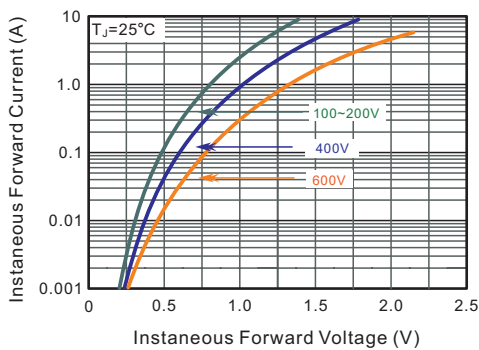


Fig.5 Typical Junction Capacitance

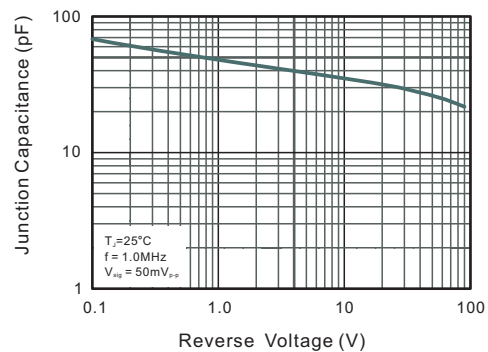


Fig.6 Maximum Non-Repetitive Peak Forward Surge Current

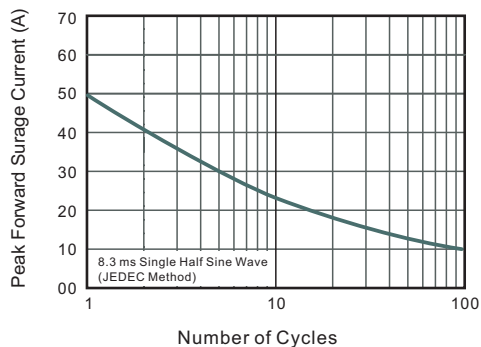
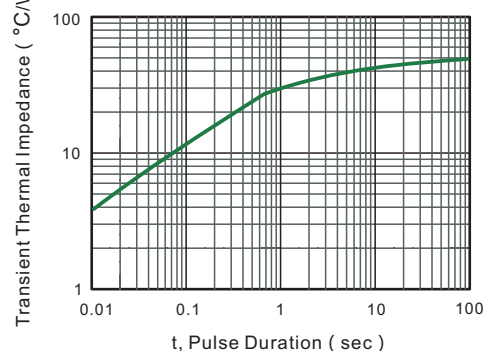
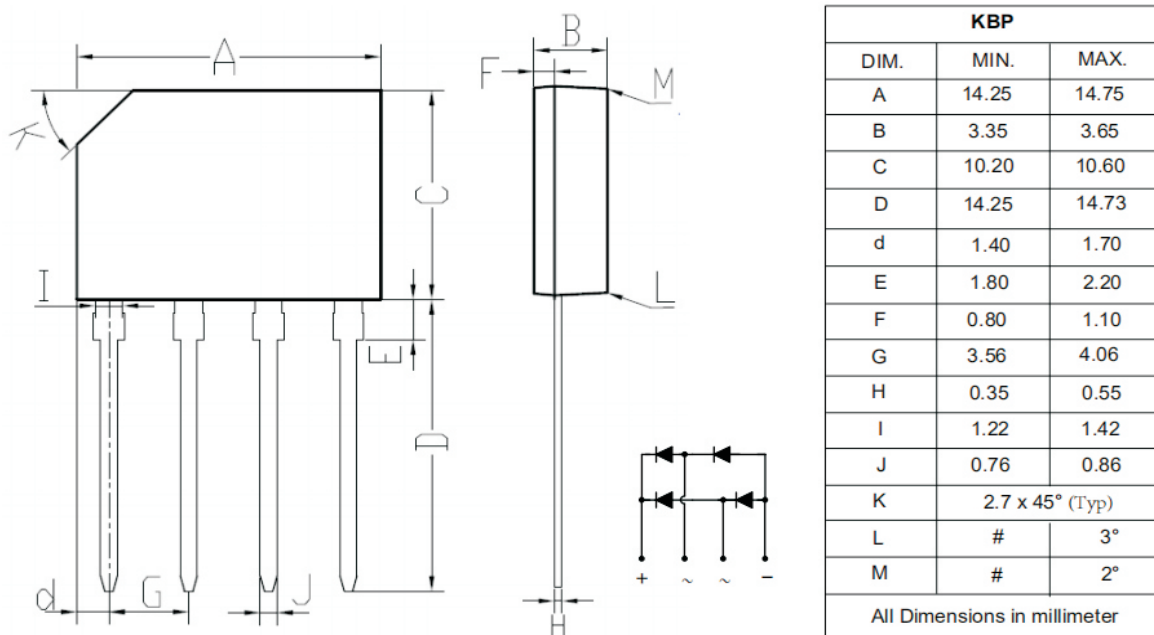


Fig.7- Typical Transient Thermal Impedance





### KBP Package Outline Dimensions



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