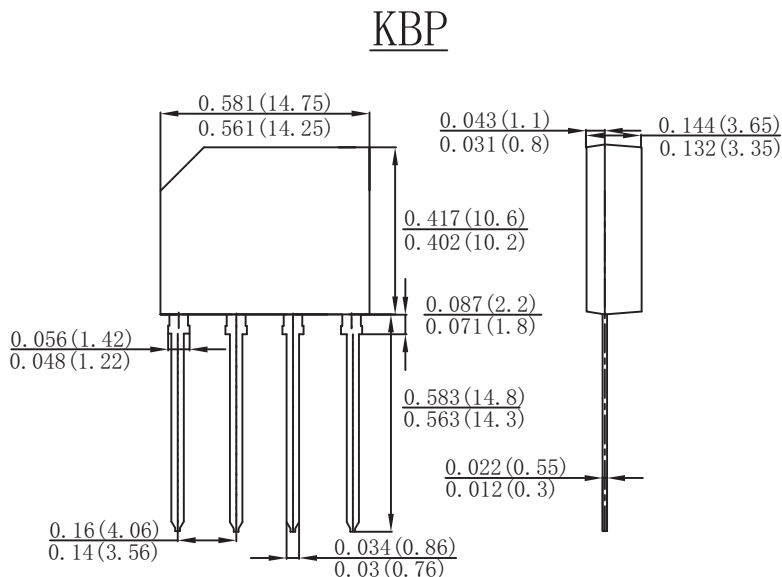


## Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

## Mechanical Data

- Case: KBP, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- Lead Free: For RoHS / Lead Free Version



## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210	UNITS	
Peak Repetitive Reverse Voltage	$V_{RRM}$									
Working Peak Reverse Voltage	$V_{RWM}$	50	100	200	400	600	800	1000	V	
DC Blocking Voltage	$V_{DC}$									
RMS Reverse Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V	
Average Rectified Output Current (Note 1) @ $T_A=50^\circ\text{C}$	$I_o$	2.0								A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50								A
Forward Voltage per element @ $I_F=2.0\text{A}$	$V_{FM}$	1.1								V
Peak Reverse Current @ $T_A=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	$I_R$	5.0 500								$\mu\text{A}$
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JA}$	25								$^\circ\text{C}/\text{W}$
	$R_{\theta JL}$	8								
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55to+150								$^\circ\text{C}$

Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..

# RATINGS AND CHARACTERISTIC CURVES KBP2005 THRU KBP210

Fig. 1 Forward Current Derating Curve

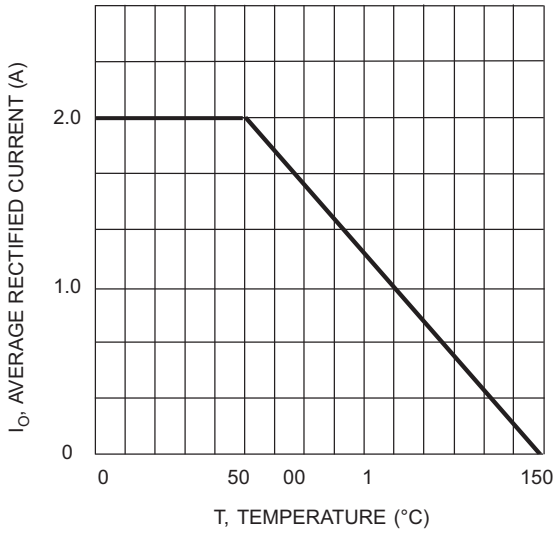


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

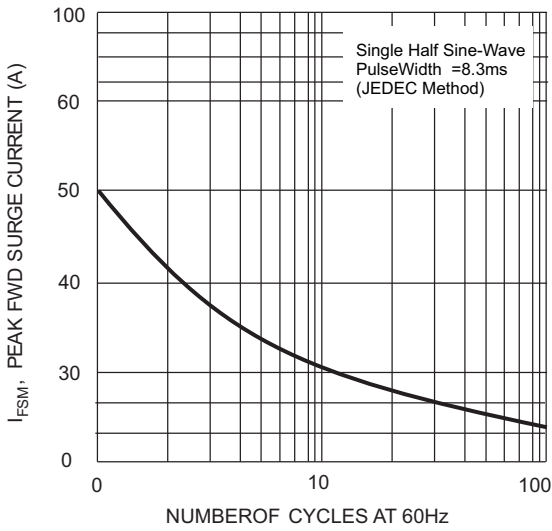


Fig. 5 Typical Reverse Characteristics (per element)

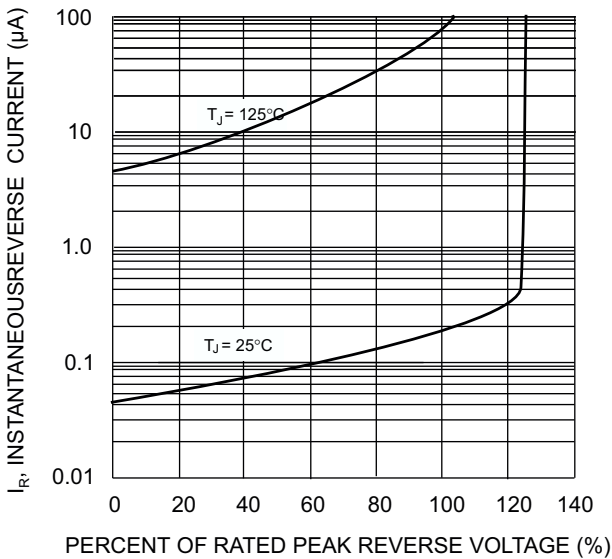


Fig. 2 Typical Fwd Characteristics

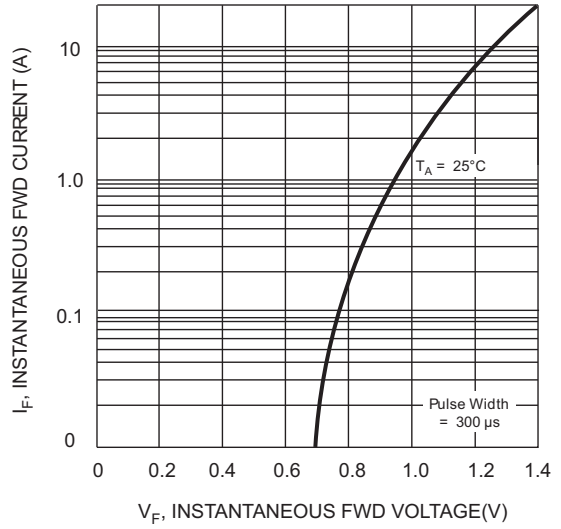
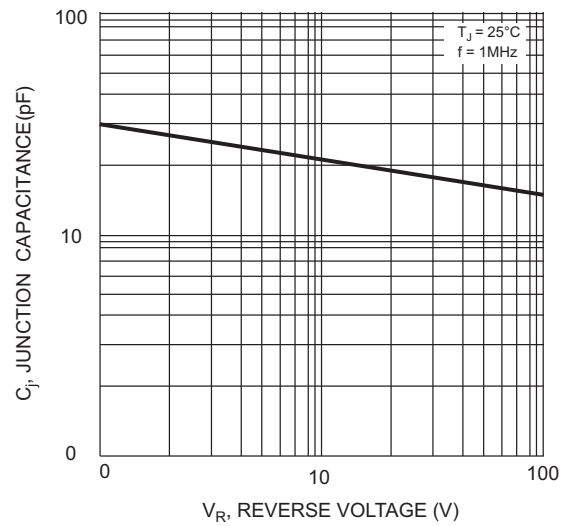


Fig. 4 Typical Junction Capacitance



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