

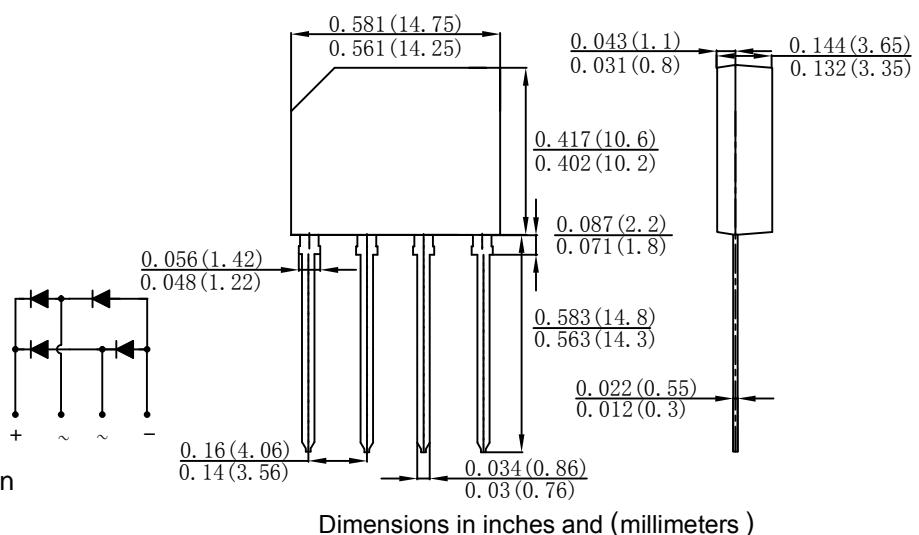


Features

- 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(NOTE 1)	SYMBOL	KBP 2005(H)	KBP 201(H)	KBP 202(H)	KBP 204(H)	KBP 206(H)	KBP 208(H)	KBP 210(H)	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
	V _{RWM}								
	V _{DC}								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 2) @T _A =100°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}					45			A
I ² t Rating for Fusing (t < 8.3ms)	I ² t					8.4			A ² s
Forward Voltage per element @IF=2.0A	V _{FM}					1.1			V
Peak Reverse Current @T _A =25°C At Rated DC Blocking Voltage @T _A =125°C	I _R					5.0 500			uA
Typical Thermal Resistance per leg (Note 3)	R _{θJA}					25			°C/W
	R _{θJL}					8			
Operating and Storage Temperature Range	T _J , T _{STG}					-55 to +150			°C

Note:1."H": Halogen Free.

2. Mounted on glass epoxy PC board with 1.3mm² solder pad.

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



Fig. 1 Forward Current Derating Curve

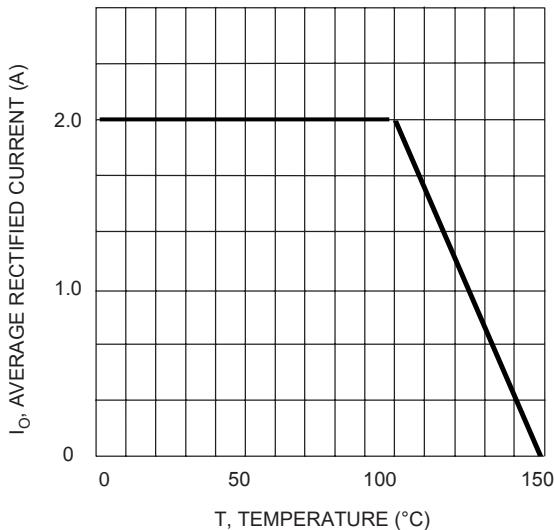


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

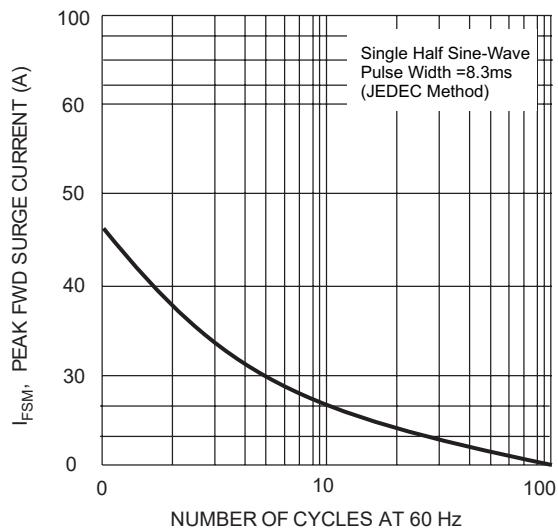


Fig. 5 Typical Reverse Characteristics (per element)

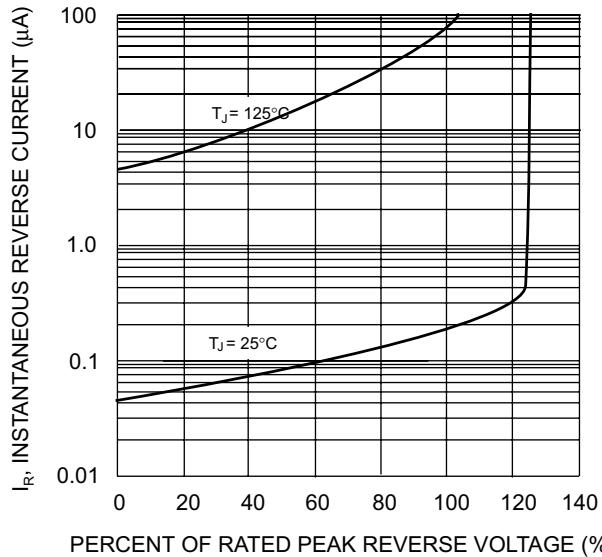


Fig. 2 Typical Forward Characteristics

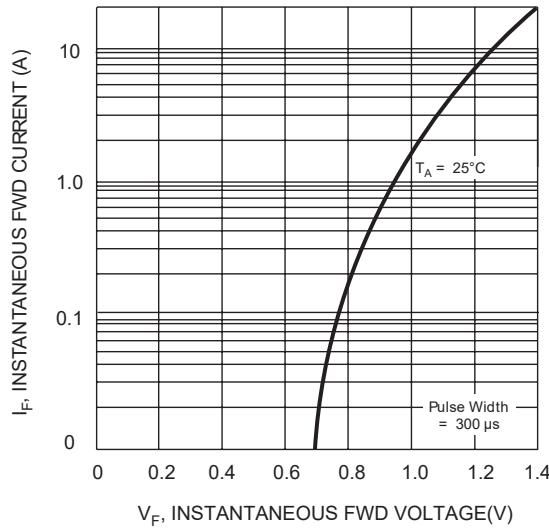


Fig. 4 Typical Junction Capacitance

