

**SINGLE PHASE 2.0AMP GLASS PASSIVATED BRIDGE RECTIFIER**

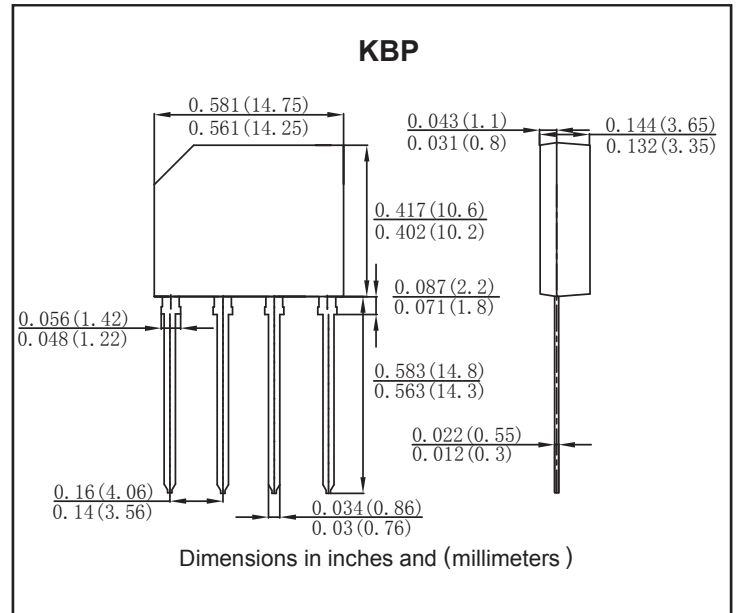
**VOLTAGE RANGE: 50 --- 1000 V CURRENT: 2.0 A**

## 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%.

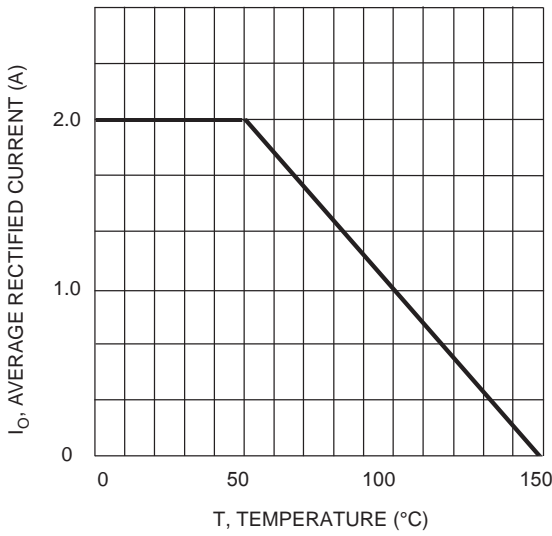
TYPE NUMBER	SYMBOL	KBP 2005	KBP 201	KBP 202	KBP 204	KBP 206	KBP 208	KBP 210	UNITS	
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>									
Working Peak Reverse Voltage	V <sub>RWM</sub>	50	100	200	400	600	800	1000	V	
DC Blocking Voltage	V <sub>DC</sub>									
RMS Reverse Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V	
Average Rectified Output Current (Note 1) @T <sub>A</sub> =50 °C	I <sub>O</sub>	2.0								A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	60								A
Forward Voltage per element @IF=2.0A	V <sub>FM</sub>	1.1								V
Peak Reverse Current @T <sub>A</sub> =25°C At Rated DC Blocking Voltage @T <sub>A</sub> =125°C	I <sub>R</sub>	500								uA
Typical Thermal Resistance per leg (Note 2)	R <sub>θJA</sub>	25								°C/W
	R <sub>θJL</sub>	8								
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55to+150								°C

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

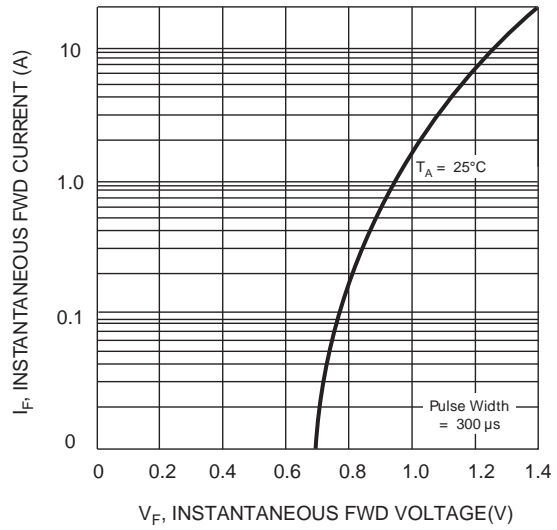
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..

# RATINGS AND CHARACTERISTIC CURVES

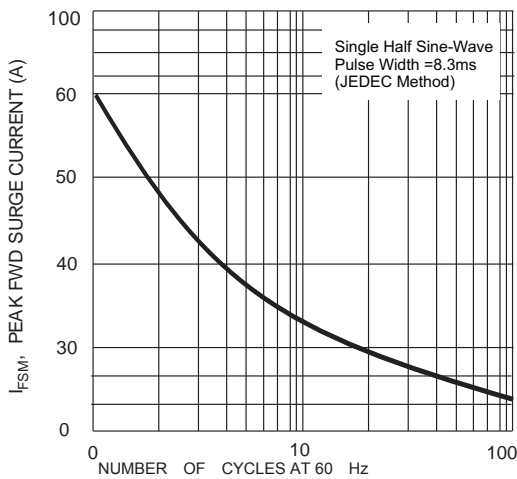
**Fig. 1 Forward Current Derating Curve**



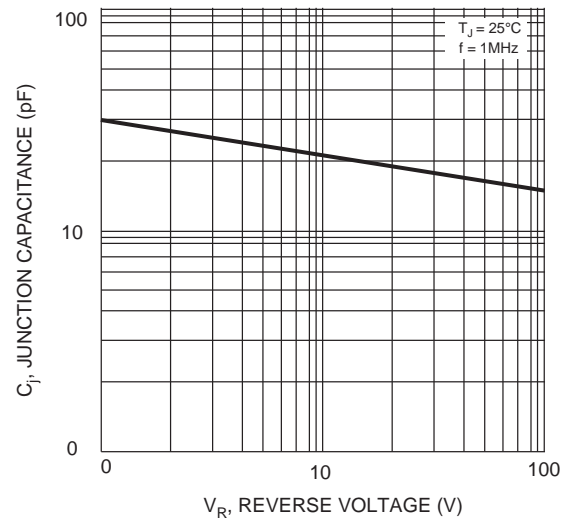
**Fig. 2 Typical Fwd Characteristics**



**Fig. 3 Max Non-Repetitive Peak Fwd Surge Current**



**Fig. 4 Typical Junction Capacitance**



**Fig.5-typical Reverse Characteristics (per element)**

