

KBP301 THRU KBP307

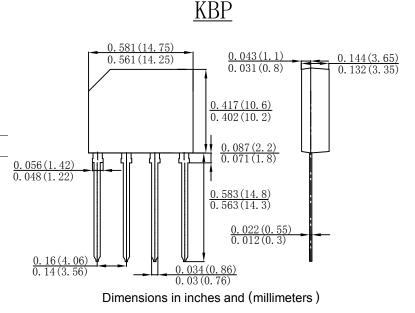
SINGLE PHASE 3.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

∵YUhifYg

- 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%.

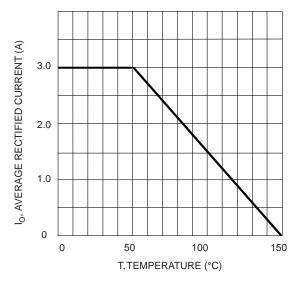
TYPE NUMBER	SYMBOL	KBP 301	KBP 302	KBP 303	KBP 304	KBP 305	KBP 306	KBP 307	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm								
	Vrwm	50	100	200	400	600	800	1000	V
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @Tc=50 °C	lf(AV)	3.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	60						А	
l ² t Rating for Fusing (t < 8.3ms)	l ² t	14.94						A ² s	
Forward Voltage per element @IF=3.0A	Vгм	1.1							V
Peak Reverse Current@TA=25°CAt Rated DC Blocking Voltage@TA=125°C	lr	5.0 500							uA
Typical Thermal Resistance per leg (Note 2)	Reja	30							- ℃ /W
	Rejl	11							
Operating and Storage Temperature Range	TJ,TSTG	-55to+150							°C

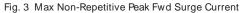
Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

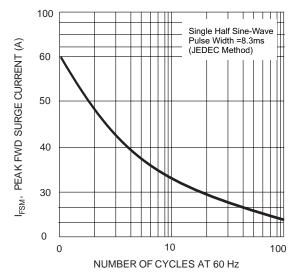
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..



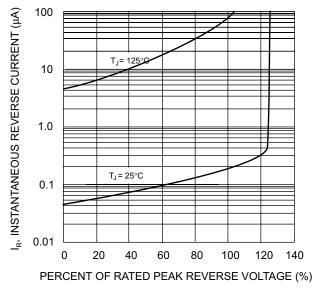
Fig. 1 Forward Current Derating Curve

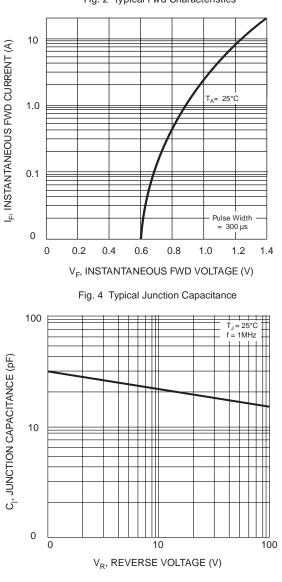


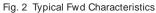












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