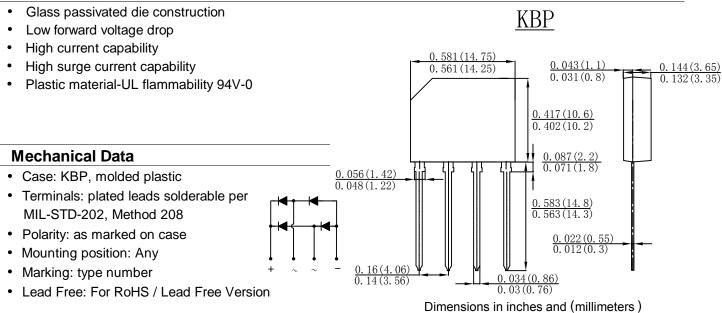


# **KBP3005 THRU KBP310**

SINGLE PHASE 3.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

#### Features



### **Maximum Ratings and Electrical Characteristics**

Rating at  $25^{\circ}$ 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 3005	KBP 301	KBP 302	KBP 304	KBP 306	KBP 308	KBP 310	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm	50	100	200	400	600	800	1000	V
	Vrwm								
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @Tc=100℃	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							A
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	14.94							A²s
Forward Voltage per element @IF=3.0A	Vfm	1.1							V
Peak Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C	lr	5.0 200							uA
Typical Junction Capacitance (Note2)	Cj	25							pF
Typical Thermal Resistance	Reja	30							- °C/W
	Rejl	11							
Operating and Storage Temperature Range	TJ,TSTG	-55to+150							°C

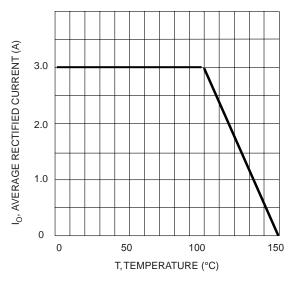
Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

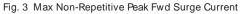
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..

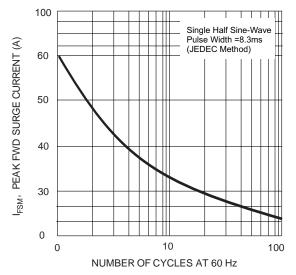


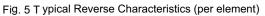
# **KBP3005 THRU KBP310**

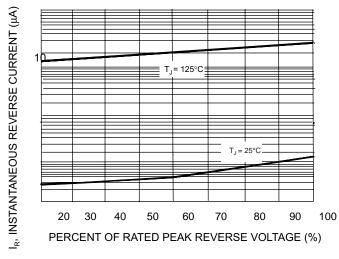
Fig. 1 Forward Current Derating Curve

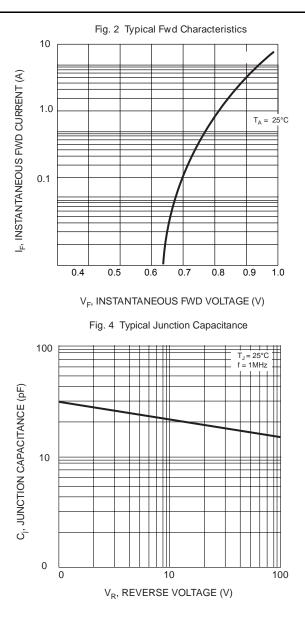














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