

KBP3005 THRU KBP310 GLASS PASSIVATED FAST BRIDGE RECTIFIERS

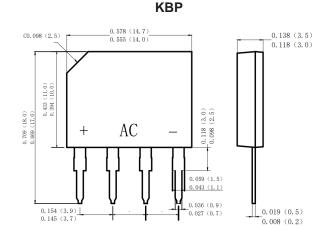
Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Amperes

FEATURES

Ideal for printed circuit boards Reliable low cost construction technique results in inexpensive product High temperature soldering guaranteed: 260°C/10 seconds/0.375" (9.5mm) lead length at 5 lbs.,(2.3kg) tension

MECHANICAL DATA

Case: Molded plastic Lead: Solder plated Mounting postition: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 ambient temperature unless otherwise specified. Single phase, half wave ,60Hz, resistive or inductive load. For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	30	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ Tc=100°C (with heatsink)	I(AV)	3.0							Α
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	75.0							А
Maximum Forward Voltage at 1.5 A DC	VF	0.95							٧
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	lR	5.0 500							uA
I ² t Rating for Fusing (t<8.3ms)	l ² t	19.2							A ² s
Typical Junction Capacitance Per Element (Note1)	СJ	45							pF
Typical Thermal Resistance (Note2)	Rелс	4.2							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Tstg	-55 to +150							°C

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



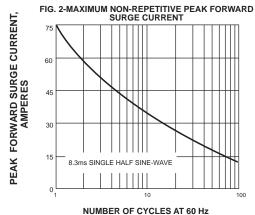
RATINGS AND CHARACTERISTIC CURVES KBP3005 THRU KBP310

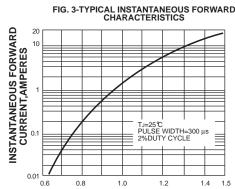
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES FIG. 1- FORWARD CURRENT DERATING CURVE 3.0 P.C.B mounted on 0.2*0.2"(5.0*5.0mm) 2.0 copper pad areas 1.5 Single Phase Half Wave 60Hz Resistive or inductive Load 1.0 0.5 0 25 50 75 100 125



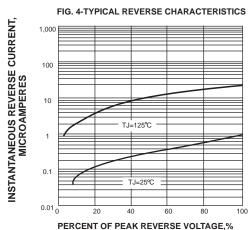
150

175

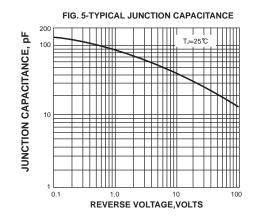


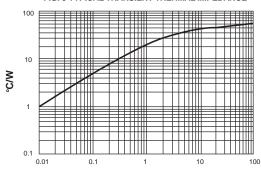


INSTANTANEOUS FORWARD VOLTAGE,









t,PULSE DURATION,sec.