

KBP2005-KBP210

SINGLE PHASE 2.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

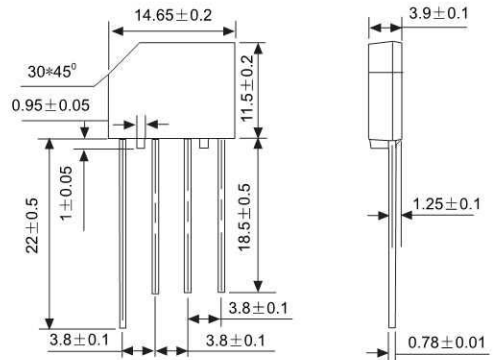


FEATURES

- UL Recognized File # E-230084
- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed: 250°C/10 seconds at 5 lbs.(2.3kg) tension
- Small size, simple installation
Leads solderable per MIL-STD-202, Method 208

Voltage Range
50 to 1000 Volts
Current
2.0 Amperes

KBP



Dimensions in inches and (millimeters)

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		KBP 2005	KBP 201	KBP 202	KBP 204	KBP 206	KBP 208	KBP 210	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A = 50°C	I _{F(AV)}	2.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated load (JEDEC method)	I _{FSM}	60							A
Maximum Instantaneous Forward Voltage Drop Per leg @ 2A	V _F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T _A = 25°C @ T _A = 125°C	I _R	10 500							uA uA
Operating Temperature Range	T _J	-55 to + 150							°C
Storage Temperature Range	T _{STG}	-55 to + 150							°C

RATING AND CHARACTERISTIC CURVES

KBP2005 THRU KBP210

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

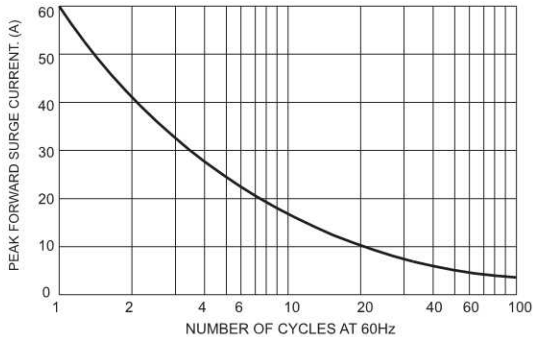


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

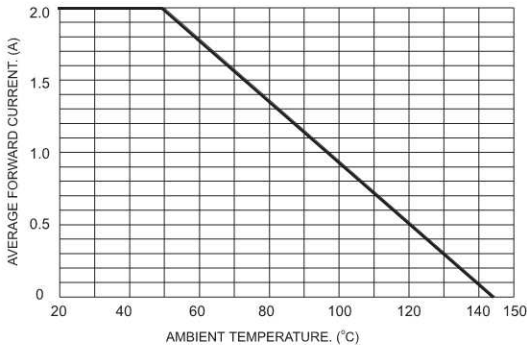


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

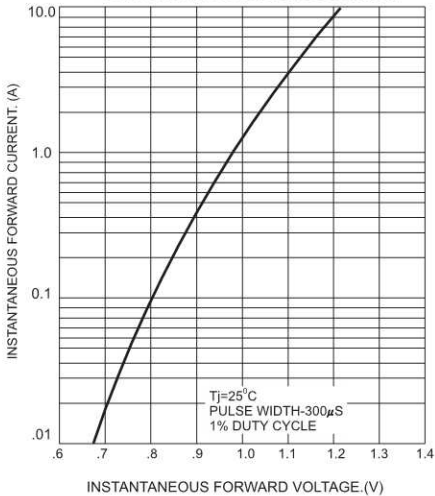


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

