

KBP3005 THRU KBP310

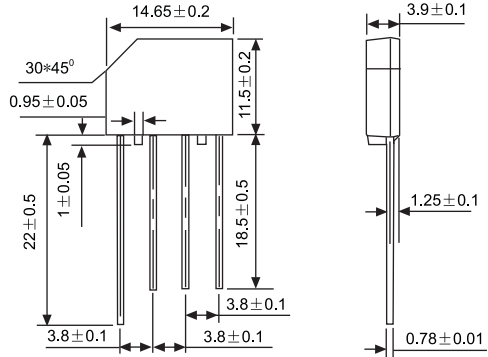
**SINGLE PHASE 3.0 AMPS.
GLASS PASSIVATED
BRIDGE RECTIFIERS**

**Voltage Range
50 to 1000 Volts
Current
3.0 Amperes**

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

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 3005	KBP 301	KBP 302	KBP 304	KBP 306	KBP 308	KBP 310	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)}	3.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated load (JEDEC method)	I _{FSM}	80							A
Maximum Instantaneous Forward Voltage Drop Per leg @ 3.0A	V _F	1.05							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T _A = 25°C @ T _A = 125°C	I _R	10 500							μA μA
Typical Thermal Resistance	R _{θJA} R _{θJC}	30.0 11							°C/W
Operating Temperature Range	T _J	-55 to + 150							°C
Storage Temperature Range	T _{STG}	-55 to + 150							°C

NOTES: 1. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on PCB with 0.47 x 0.47"(12 x12mm) Copper Pads.

RATING AND CHARACTERISTIC CURVES KBP3005 THRU KBP310

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

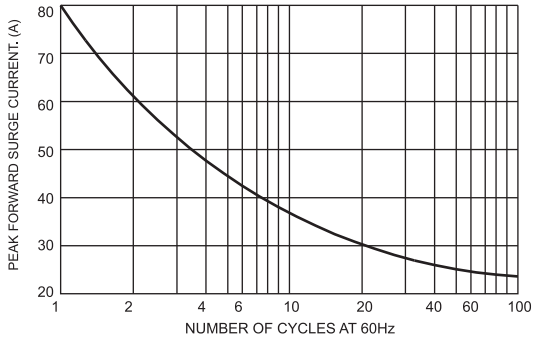


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

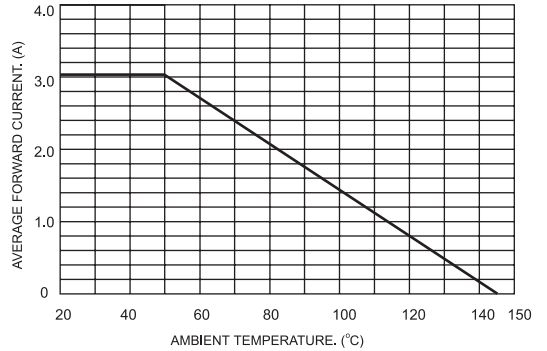


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

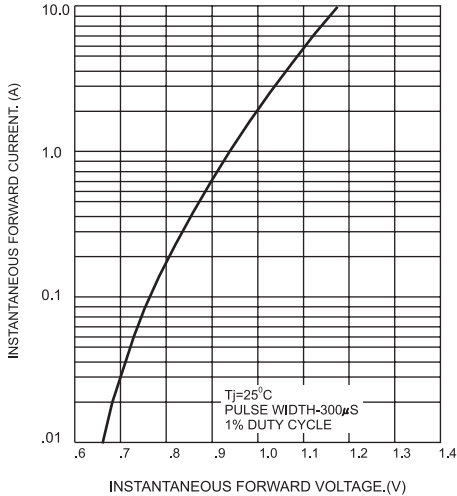


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

