Topdiode Manufacturing Company
Diode | Capacitors
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KBP3005 THRU KBP310

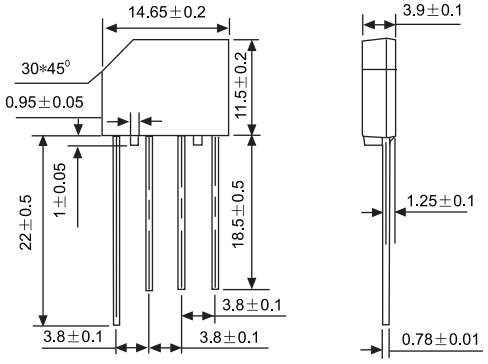
SINGLE PHASE 3.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range
50 to 1000 Volts
Current
3.0 Amperes

FEATURES

- 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
Maximun DC Reverse Current @ T_A = 25°C at Rated DC Blocking Voltage @ T_A = 125°C	I_R	10 500							uA uA
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JC}$	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.

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RATING AND CHARACTERISTIC CURVES
KBP3005 THRU KBP310

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

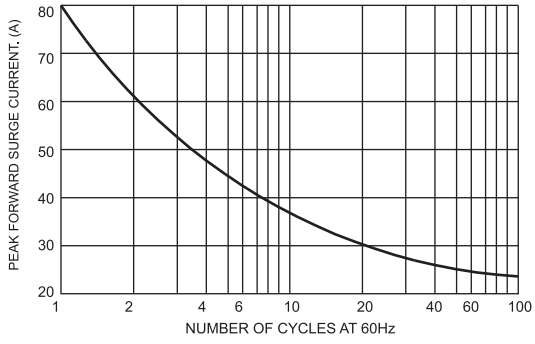

FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

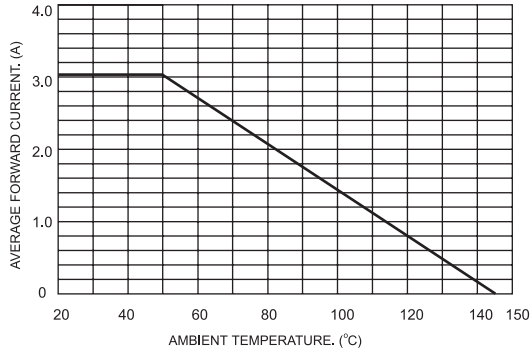

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

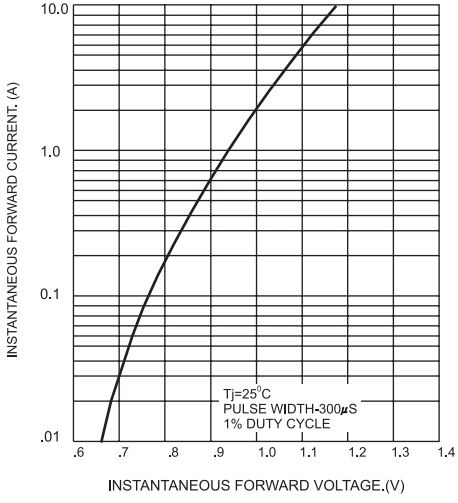

FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT