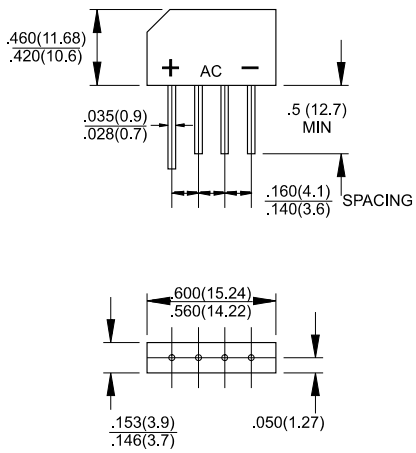
KBP301 THRU KBP307

Voltage Range 50 to 1000 Volts Current 3.0 Amperes

Features

- ✧ UL Recognized File # E-96005
- ✧ 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. (2.3 Kg) 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, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number	KBP 301	KBP 302	KBP 303	KBP 304	KBP 305	KBP 306	KBP 307	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_A = 50°C	3.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	80							A
Maximum Instantaneous Forward Voltage @ 3.14A	1.1							V
Maximum DC Reverse Current @ T_A=25°C at Rated DC Blocking Voltage @ T_A=125°C	10 500							uA uA
Typical Thermal Resistance (Note 1) RθJA RθJL	30.0 11							°C/w
Operating Temperature Range T_J	-55 to +150							°C
Storage Temperature Range T_{STG}	-55 to +150							°C

YFW 佑风微®

RATINGS AND CHARACTERISTIC CURVES (KBP301G THRU KBP307G)

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

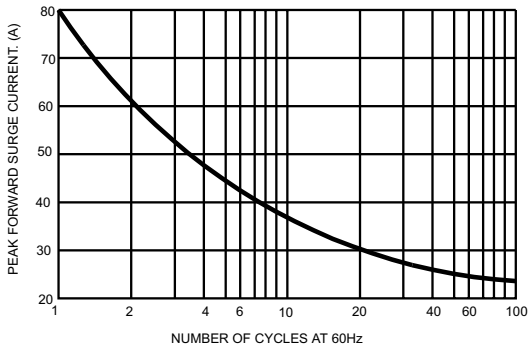


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

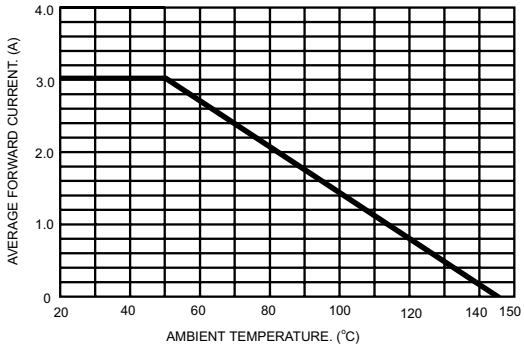


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

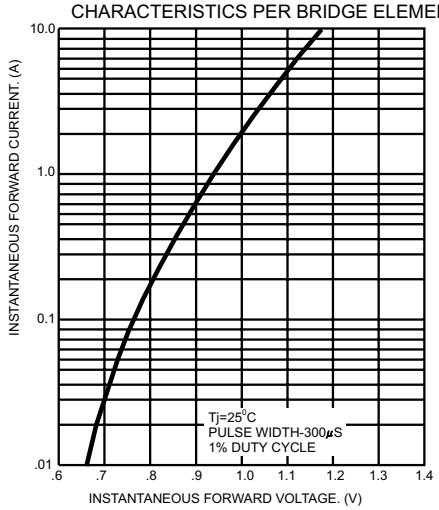


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

