



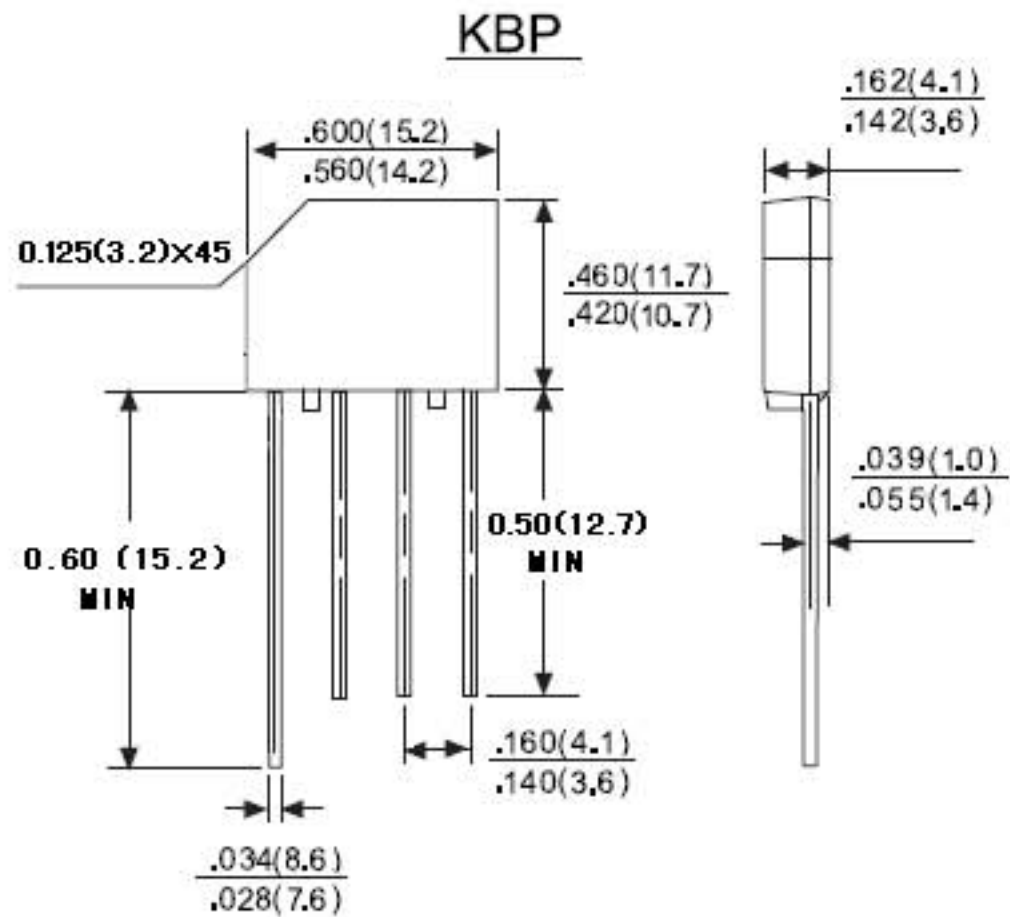
# KBP2005 THRU KBP210

**SINGLE PHASE 2.0 AMPS.  
GLASS PASSIVATED  
BRIDGE RECTIFIERS**

**Voltage Range  
50 to 1000 Volts  
Current  
2.0 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



**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	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	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 @TA = 50°C	IF(AV)	2.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated load (JEDEC method)	IFSM	60							A
Maximum Instantaneous Forward Voltage Drop Per leg @ 2A	VF	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ TA = 25°C @ TA = 125°C	IR	5 100							uA uA
Operating Temperature Range	TJ	-55 to + 150							°C
Storage Temperature Range	TSTG	-55 to + 150							°C

# RATING AND CHARACTERISTIC CURVES KBP2005 THRU KBP210



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

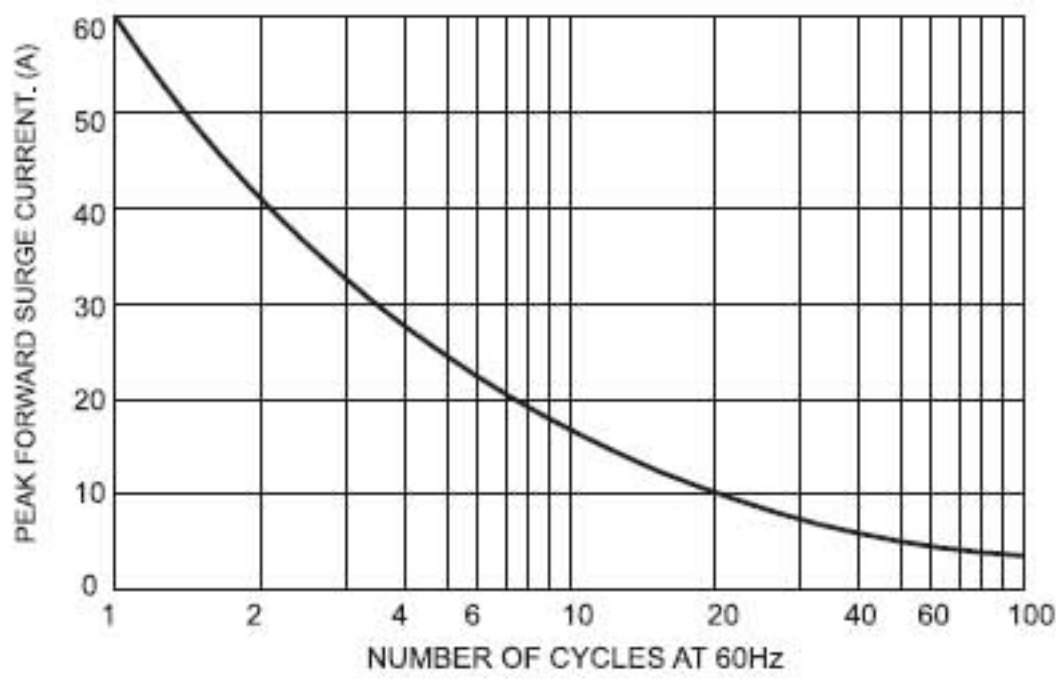


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

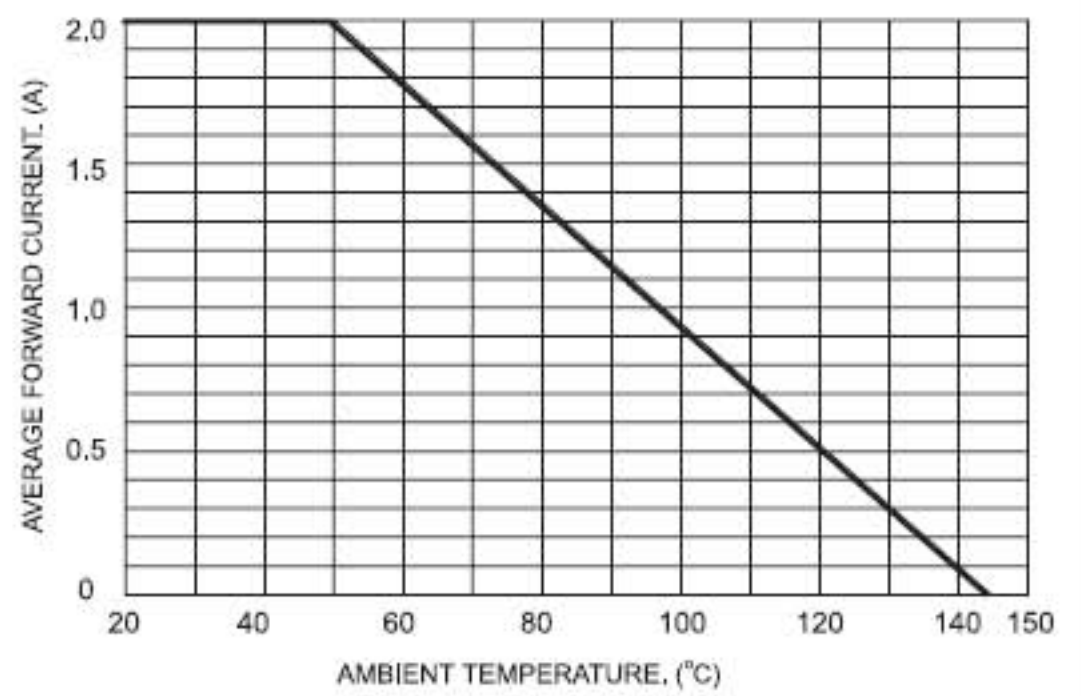


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

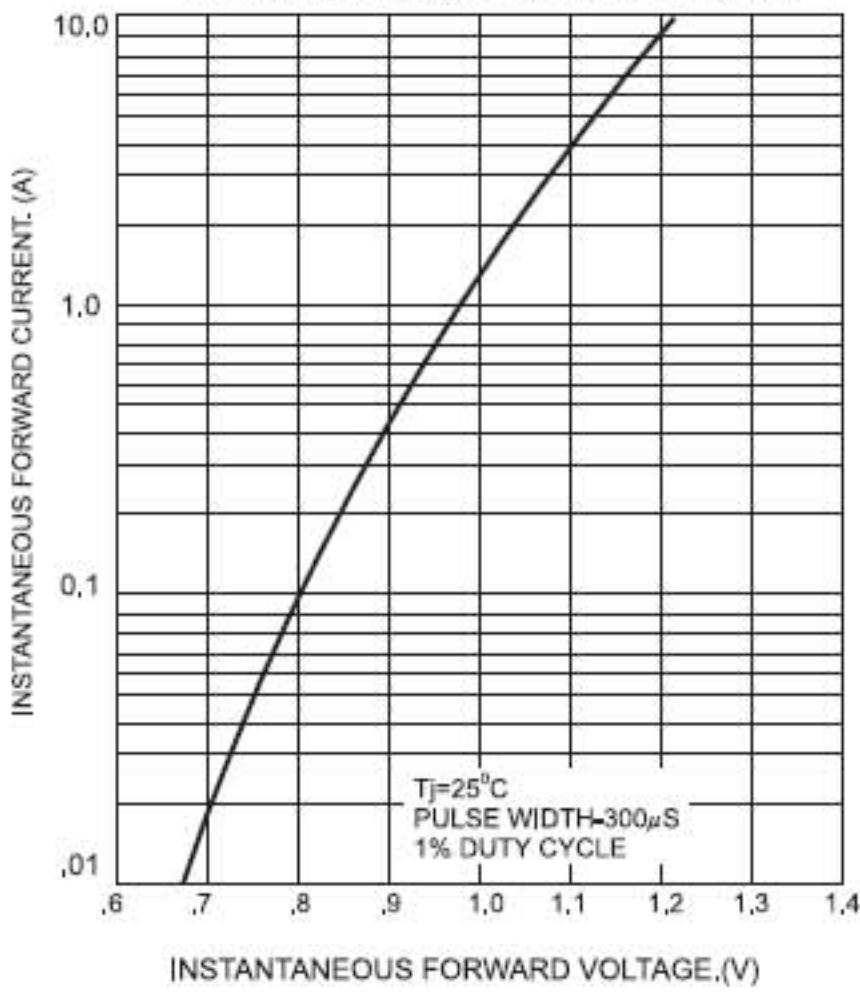


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

