BRIDGE RECTIFIER
KBP2005 Thru KBP210

2.0Amps

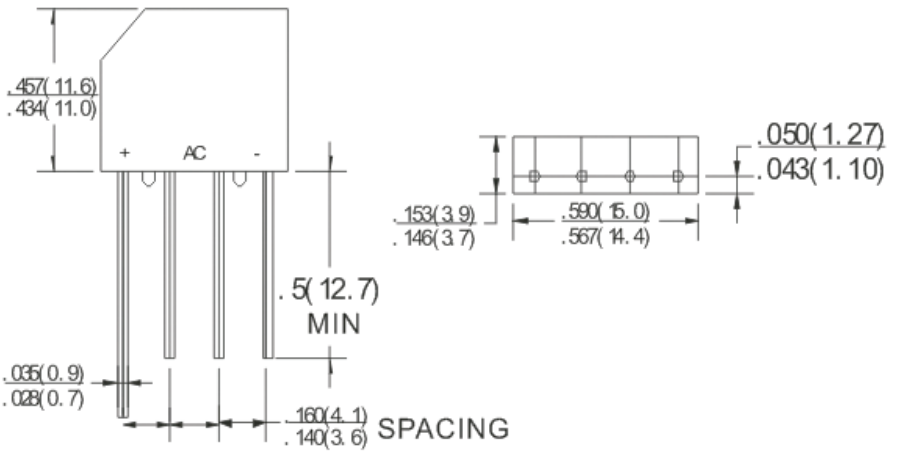
RoHS

FEATURES

- Reverse voltage 50 to 1000 volts
- Glass passivated chip junction
- UL Recognized
- High surge forward current capability
- Low reverse leakage current

MECHANICAL DATA

- Molded plastic body (UL 94V-0 reted)
- Lead: solder plated
- Polarity: As marked



KBP

Dimensions in inches and (millimeters)

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

(T_A=25°C unless otherwise noted)

Parameter	Symbol	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210	Unit
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_C=30°C	Io (AV)	2							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	60							A
I^2t Rating for fusing (1ms ≤ t < 8.3ms)	I^2t	15							A^2S
Peak Forward Voltage@1.5A	V_F	1.1							V
Maximum DC Reverse Current at rated DC Blocking voltage Per Element	I_R	10							µA
Typical Thermal Resistance (Note)	$R_{\theta JA}$	30							°C/W
Operating Temperature Range	T_J	-50 to + 150							°C
Storage Temperature Range	T_{STG}	-50 to + 150							°C

NOTE: Thermal Resistance from Junction to Case on PCB with 0.47 x 0.47" (12x12mm) Copper

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RATING & CHARACTERISTIC CURVES

FIG.1-MAXIMUM CURRENT DERATING CURVE

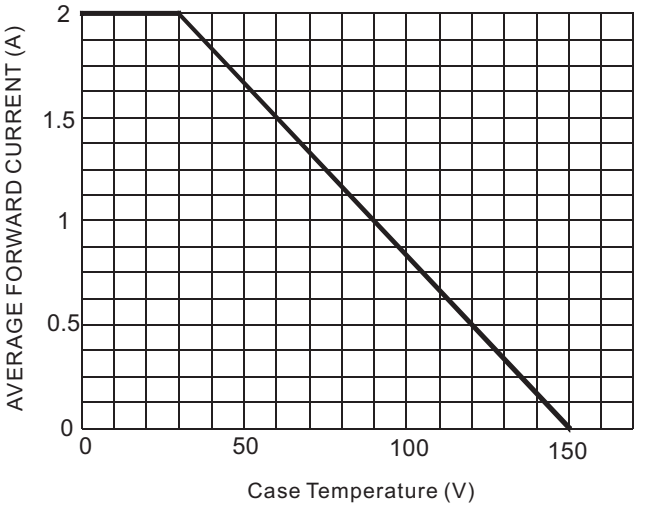


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

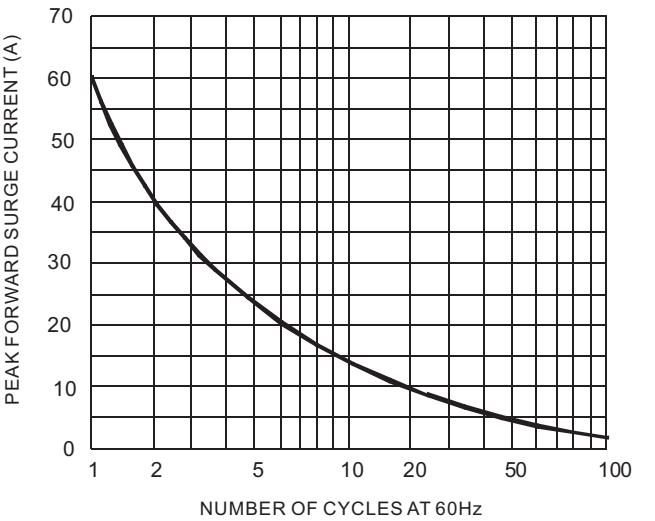


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

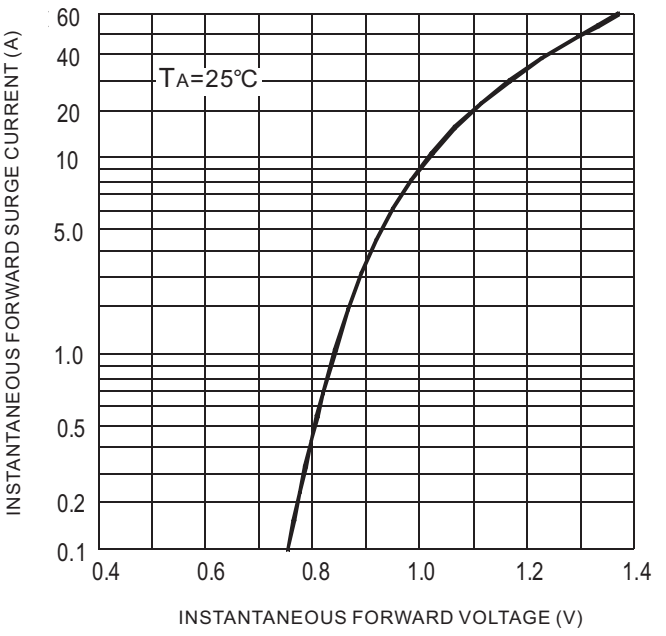
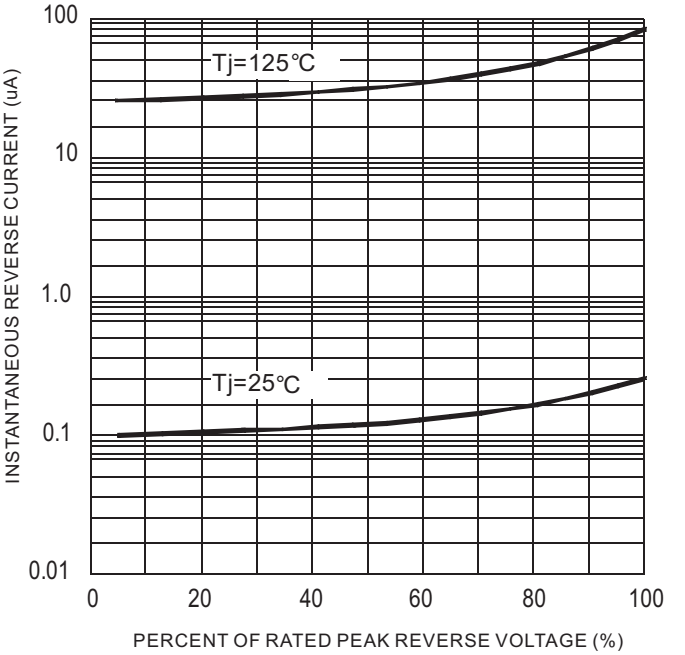


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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