



KBP3005G THRU KBP310G

SINGLE PHASE SILICON BRIDGE RECTIFIER

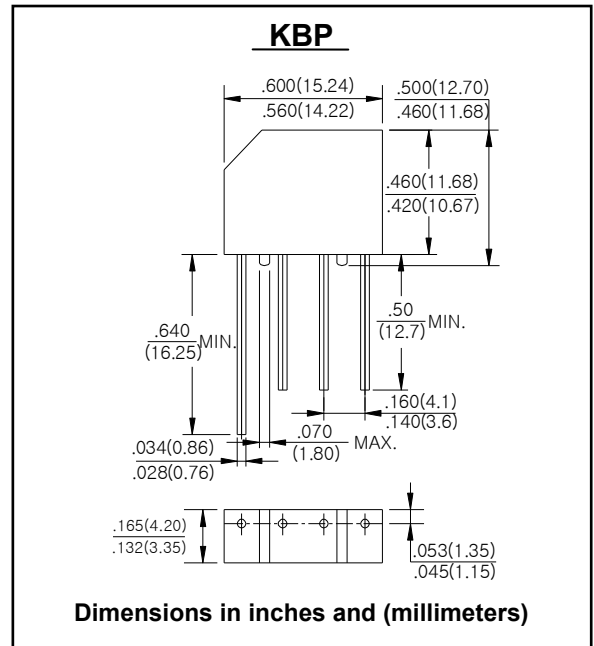
Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Ampere

FEATURES

- Glass Passivated Die Construction
- Ideal for printed circuit board
- Surge overload rating: 60A peak
- High case dielectric strength
- High temperature soldering guaranteed:
260°C/10 seconds at 5lbs. (2.3kg) tension

MECHANICAL DATA

- Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
- Terminals: Plated leads solderable per
MIL-STD 202, method 208
- Mounting Position: Any
- Weight: 1.70 g
- Marking: Type Number



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

CHARACTERISTICS	SYMBOL	KBP3005G	KBP301G	KBP302G	KBP304G	KBP306G	KBP308G	KBP310G	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 Output Current at T _A = 50°C	I _O	3.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60							A
Maximum DC Forward Voltage Drop per Bridge Element at 3.0A DC	V _F	1.1							V
Maximum Reverse Current at rated DC Blocking Voltage per element	@ T _A = 25°C	10.0							μA
	@ T _A = 125°C	500							
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150							°C

Note1) Marking Code "G" : Glass Passivated Die Construction



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RATINGS AND CHARACTERISTIC CURVES

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

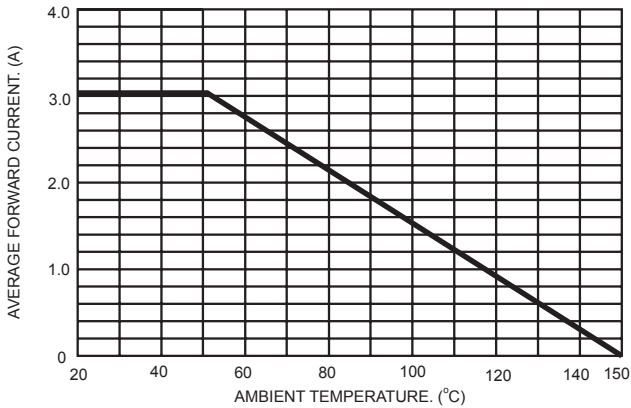


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

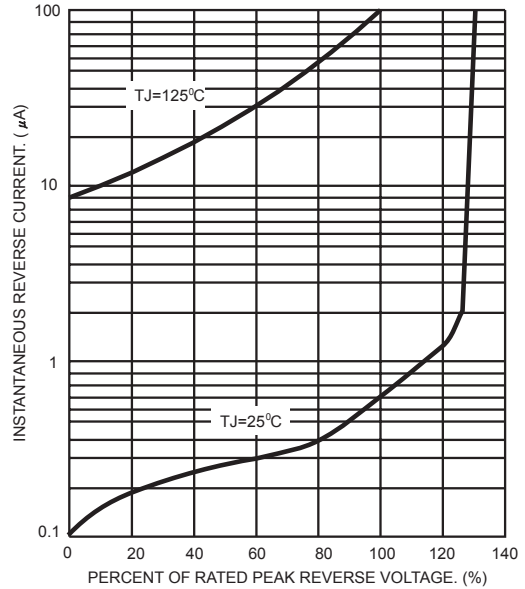


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

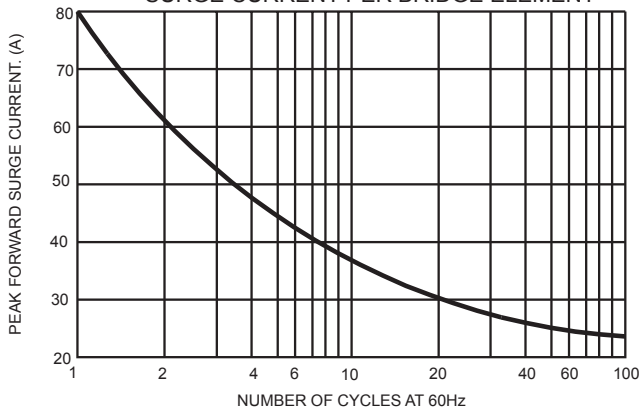


FIG.4- TYPICAL JUNCTION CAPACITANCE

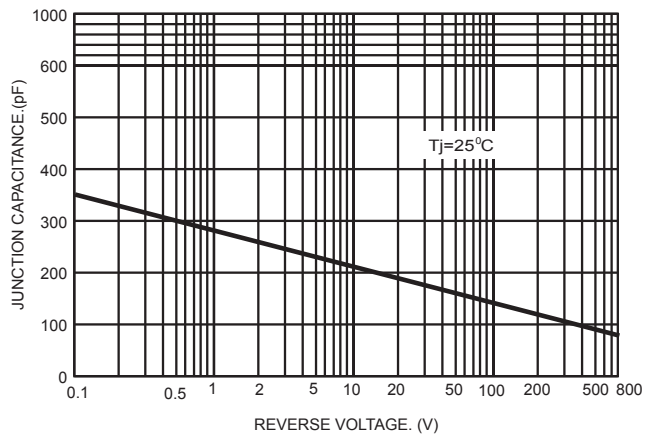


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

