TSC

# KBL401 THRU KBL407

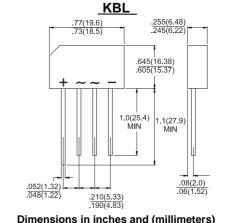
Single Phase 4.0 AMPS. Silicon Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current 4.0 Amperes

### **Features**

- UL Recognized File # E-96005
- Ideal for printed circuit board
- Reliable low cost construction
- High surge current capability
- → High temperature soldering guaranteed: 260°C / 10 seconds / 0.375" ( 9.5mm ) lead length at 5 lbs., (2.3 kg) tension
- Method 208



#### 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.

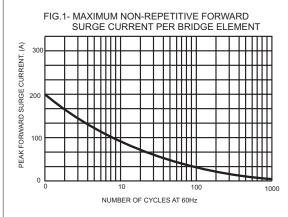
For capacitive load, derate current by 20%

Type Number	Symbol	KBL 401	KBL 402	KBL 403	KBL 404	KBL 405	KBL 406	KBL 407	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	<b>V</b>
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_A = 50^{\circ}C$	I <sub>(AV)</sub>	4.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	I <sub>FSM</sub>	200							Α
Maximum Instantaneous Forward Voltage @ 4.0A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C	_	10							uA
at Rated DC Blocking Voltage @ T <sub>A</sub> =100°C	I <sub>R</sub>				500				uA
Typical thermal Resistance (Note 1)	$R\theta_{JA}$	19							<b>C</b> /W
	$R heta_{JL}$				2.4				C/V
Operating Temperature Range	TJ	-55 to +125							Ç
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							Q

Note: 1. Thermal Resistance from Junction to Ambient and Junction to Lead with units Mounted on P.C.B. at 0.375" (9.5mm) Lead Length and 0.6" x 0.6" (16 x 16mm) Copper Pads.



#### RATINGS AND CHARACTERISTIC CURVES (KBL401 THRU KBL407)



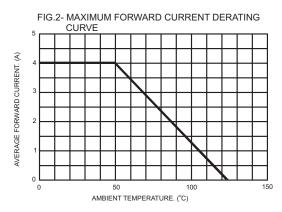


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

