

<b>KBL401 THRU KBL407</b>	
<b>Single Phase 4.0 AMPS. Silicon Bridge Rectifiers</b>	
<b>Features</b> <ul style="list-style-type: none"> <li>• UL Recognized File # E-96005</li> <li>• Ideal for printed circuit board</li> <li>• Reliable low cost construction</li> <li>• High surge current capability</li> <li>• High temperature soldering guaranteed: 250°C / 10 seconds / 0.375" ( 9.5mm ) lead length at 5 lbs., ( 2.3 kg ) tension</li> <li>• Leads solderable per MIL-STD-202, Method 208</li> </ul>	<p>Voltage Range 50 to 1000 Volts Current 4.0 Amperes</p> <p><b>KBL</b></p> <p>Dimensions in inches and (millimeters)</p>

### 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%

Symbols	KBL 401	KBL 402	KBL 403	KBL 404	KBL 405	KBL 406	KBL 407	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 <sub>A</sub> = 50°C	4.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	200							A
Maximum Instantaneous Forward Voltage @ 4.0A	1.1							V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage @ T <sub>A</sub> =100°C	10 500							uA uA
Operating Temperature Range T <sub>J</sub>	-55 to +125							°C
Storage Temperature Range T <sub>STG</sub>	-55 to +150							°C

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

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

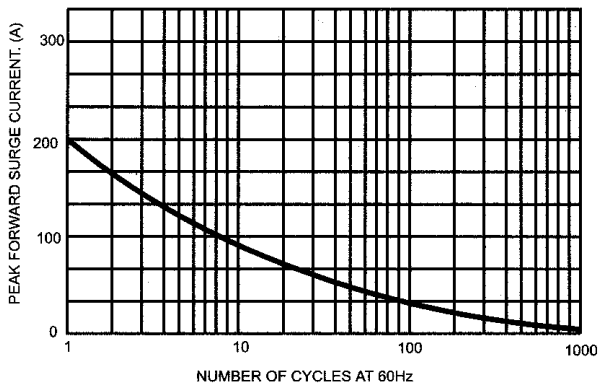


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

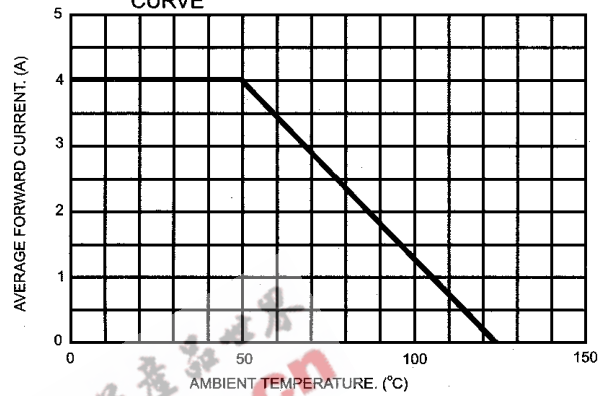


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

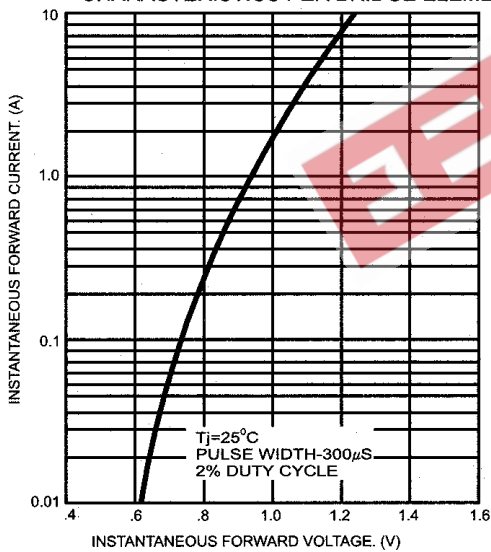


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

