

KBL401 THRU KBL407	
Single Phase 4.0 AMPS. Silicon Bridge Rectifiers	
<p>Features</p> <ul style="list-style-type: none"> • UL Recognized File # E-96005 • Ideal for printed circuit board • Reliable low cost construction • High surge current capability • High temperature soldering guaranteed: 250°C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension • Leads solderable per MIL-STD-202, Method 208 	<p style="text-align: center;">Voltage Range 50 to 1000 Volts Current 4.0 Amperes</p> <p style="text-align: center;">KBL</p> <p style="text-align: center;">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 _A = 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 _A =25°C at Rated DC Blocking Voltage @ T _A =100°C	10 500							uA uA
Operating Temperature Range T _J	-55 to +125							°C
Storage Temperature Range T _{STG}	-55 to +150							°C

RATINGS AND CHARACTERISTIC CURVES (KBL401 THRU KBL407)

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

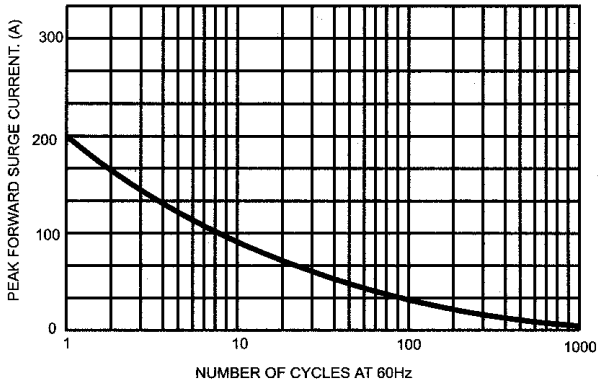


FIG. 2- MAXIMUM FORWARD CURRENT DERATING CURVE

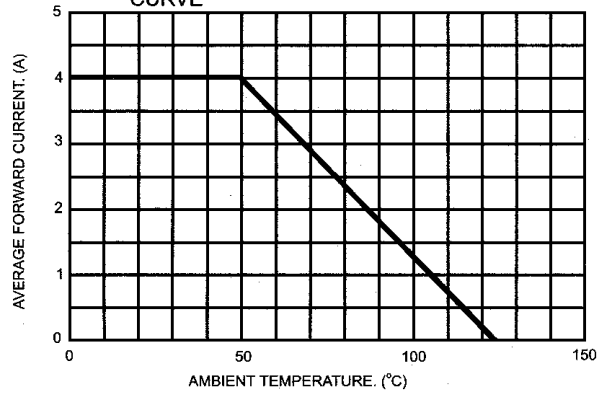


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

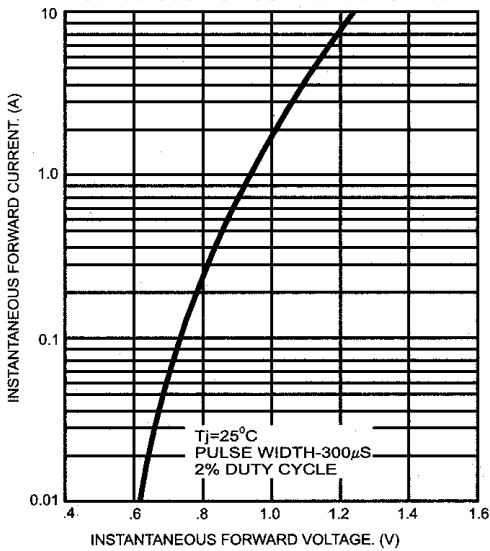


FIG. 4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

