

| 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

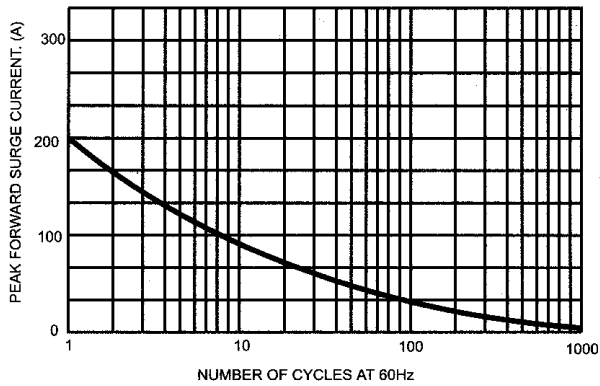


FIG. 2- MAXIMUM FORWARD CURRENT DERATING CURVE

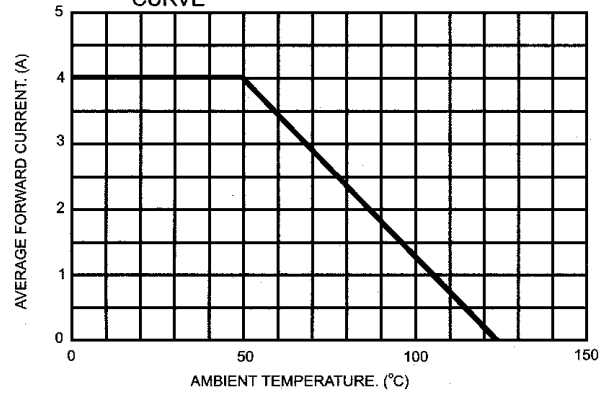


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

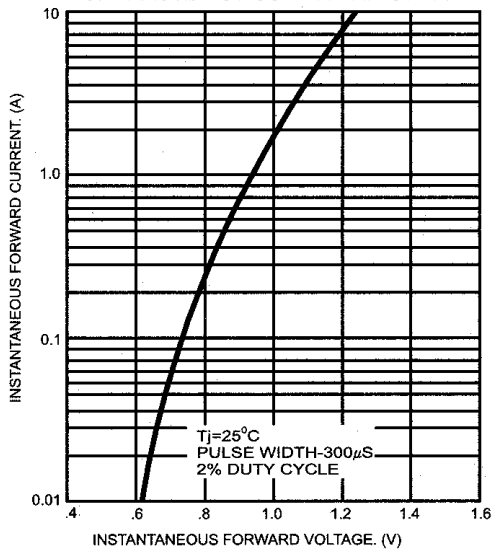
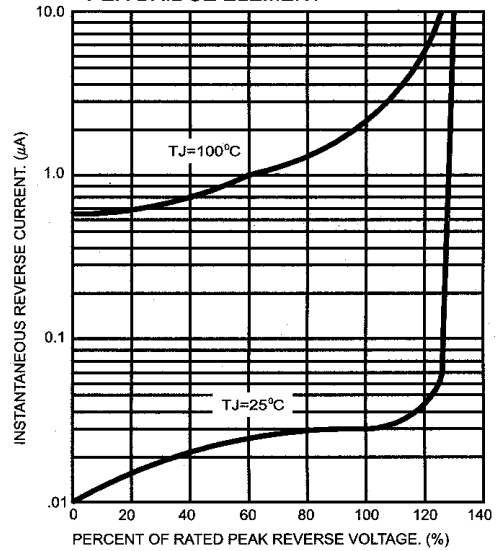


FIG. 4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



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