



# KBL606 THRU KBL610

## SINGLE PHASE 4.0 AMP BRIDGE RECTIFIERS

### FEATURES

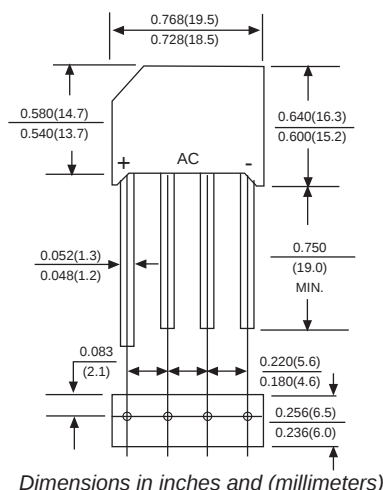
- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Polarity: marked on body
- \* Mounting position: Any

### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

6.0 Amperes



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| TYPE NUMBER                                                                                        | KBL606     | KBL608 | KBL610 | UNITS |
|----------------------------------------------------------------------------------------------------|------------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage                                                             | 600        | 800    | 1000   | V     |
| Maximum RMS Voltage                                                                                | 420        | 560    | 700    | V     |
| Maximum DC Blocking Voltage                                                                        | 600        | 800    | 1000   | V     |
| Maximum Average Forward Rectified Current                                                          | 6.0        |        |        | A     |
| .375"(9.5mm) Lead Length at Ta=50°C                                                                | 6.0        |        |        | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 150        |        |        | A     |
| Maximum Forward Voltage Drop per Bridge Element at 6.0A D.C.                                       | 1.0        |        |        | V     |
| Maximum DC Reverse Current Ta=25°C                                                                 | 5          |        |        | μA    |
| at Rated DC Blocking Voltage Ta=100°C                                                              | 500        |        |        | μA    |
| Operating Temperature Range, Tj                                                                    | -65 — +150 |        |        | °C    |
| Storage Temperature Range, Tstg                                                                    | -65 — +150 |        |        | °C    |

## RATING AND CHARACTERISTIC CURVES (KBL606 THRU KBL610)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

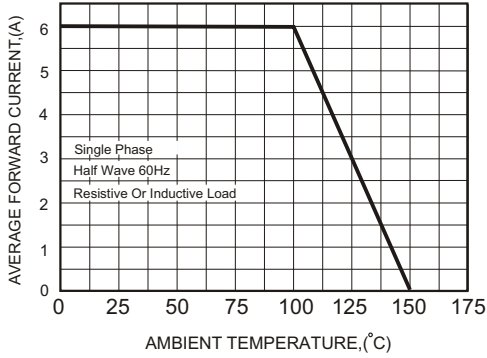


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

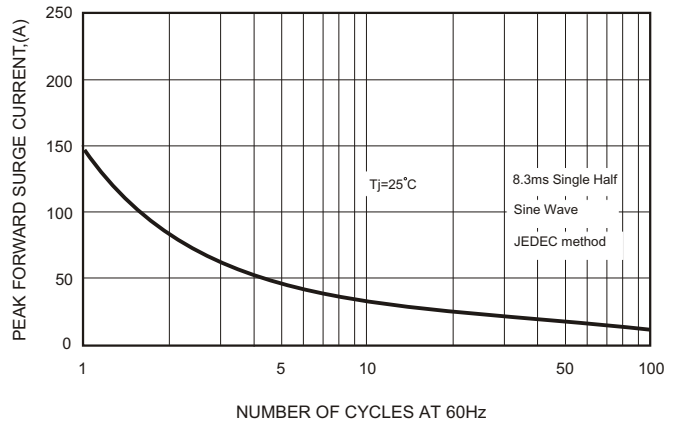


FIG.3-TYPICAL FORWARD CHARACTERISTICS

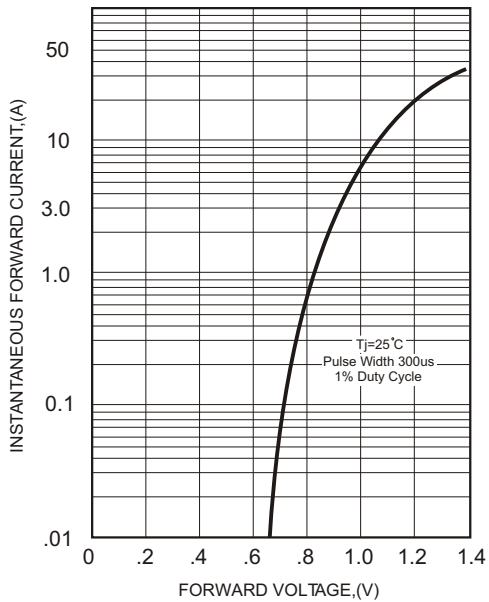


FIG.4-TYPICAL REVERSE CHARACTERISTICS

