

### FEATURES

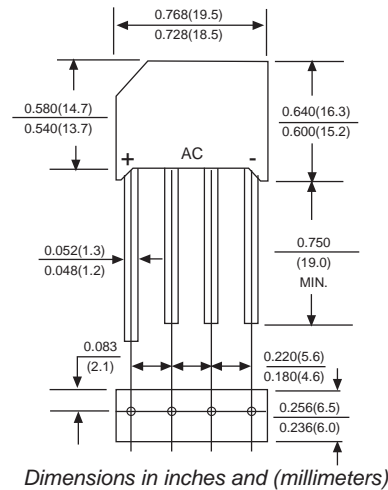
- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Polarity: marked on body
- \* Mounting position: Any

### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

6.0 Amperes



Dimensions in inches and (millimeters)

## 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				
.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)		170		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

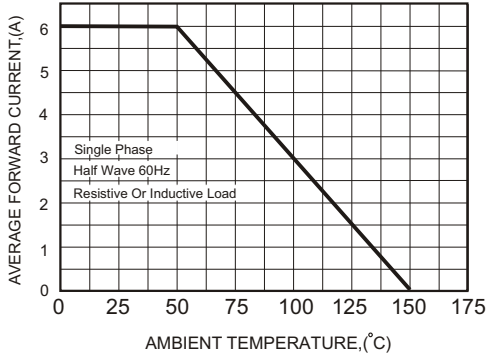


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

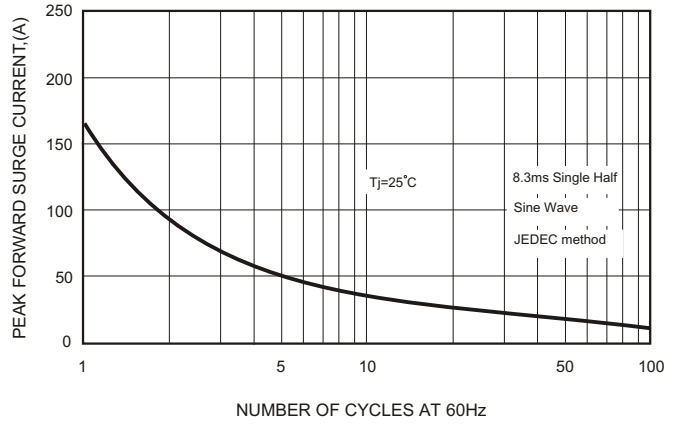


FIG.3-TYPICAL FORWARD CHARACTERISTICS

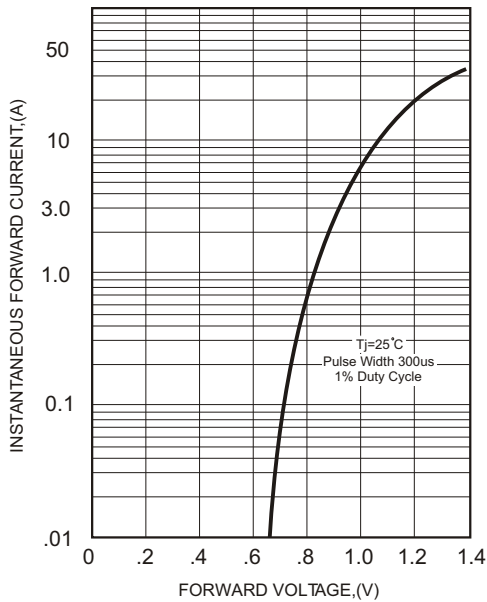
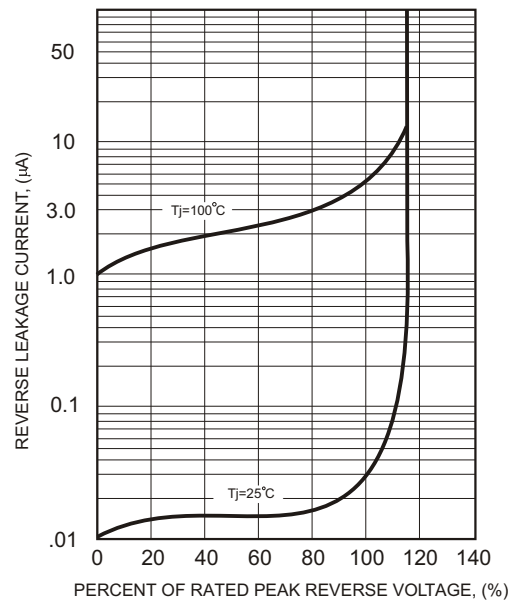


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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