

# KBL406 THRU KBL410

## SINGLE PHASE 4.0 AMP BRIDGE RECTIFIERS

### FEATURES

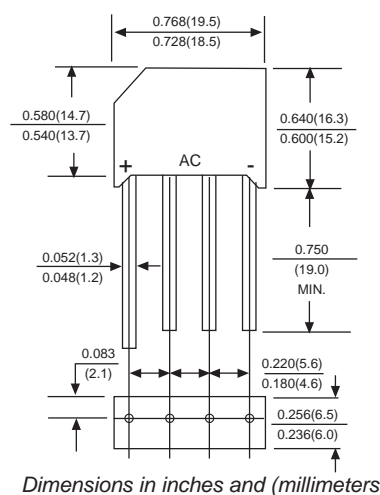
- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Polarity: marked on body
- \* Mounting position: Any

### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

4.0 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	KBL406	KBL408	KBL410	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	4.0			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 4.0A 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 (KBL406 THRU KBL410)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

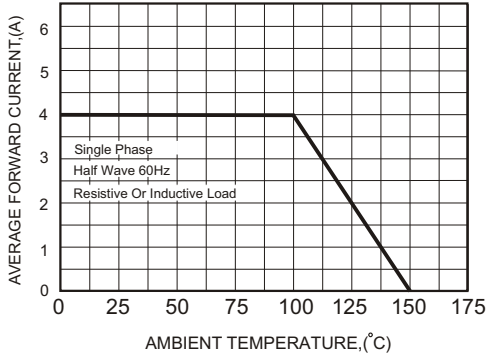


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

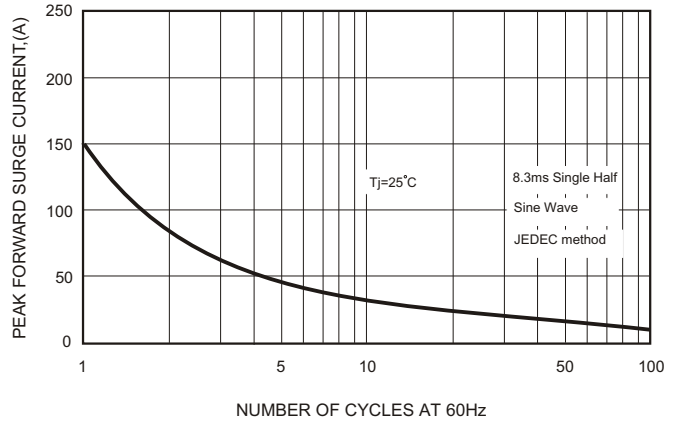


FIG.3-TYPICAL FORWARD CHARACTERISTICS

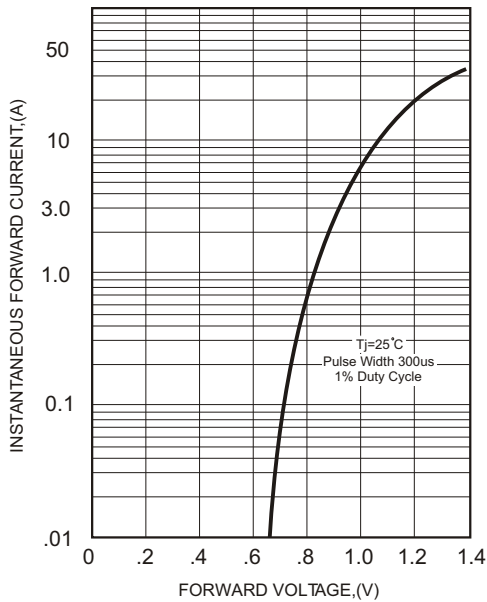


FIG.4-TYPICAL REVERSE CHARACTERISTICS

