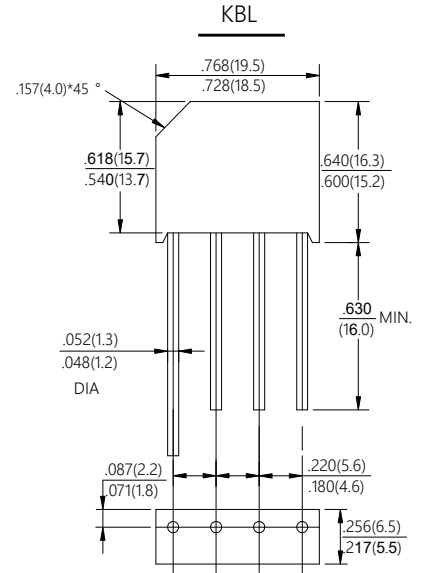


## FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Rating to 1000V PRV
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

## MECHANICAL DATA

- Case: KBL molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750, method 2026
- Mounting Position: Any



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbols	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	$I(AV)$	4.0						Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	120						Amps
Rating for fusing (t<8.3ms)	$I^2t$	59.8						$A^2s$
Maximum Instantaneous Forward Voltage at 4.0 A DC	$V_F$	1.05						Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25^\circ C$	5						$\mu A$
	$T_A=125^\circ C$	100						
Typical thermal resistance(Note 1)	$R_{\theta JA}$	13						$^\circ C/W$
Operating temperature range	$T_J$	-55 to +150						$^\circ C$
Storage temperature range	$T_{STG}$	-55 to +150						$^\circ C$

**Note:** 1. Thermal resistance junction to ambient with units mounted on 3.0x3.0x0.11" thick aluminum plate

FIG.1-MAXIMUM FORWARD SURNGE CURRENT

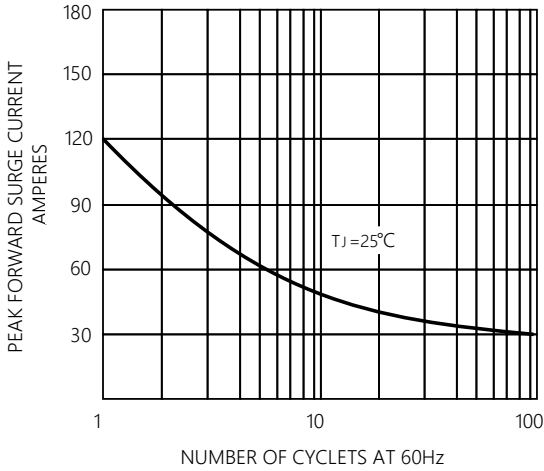


FIG.2-DERATING CURVE  
OUTPUT RECTIFIED CURRENT

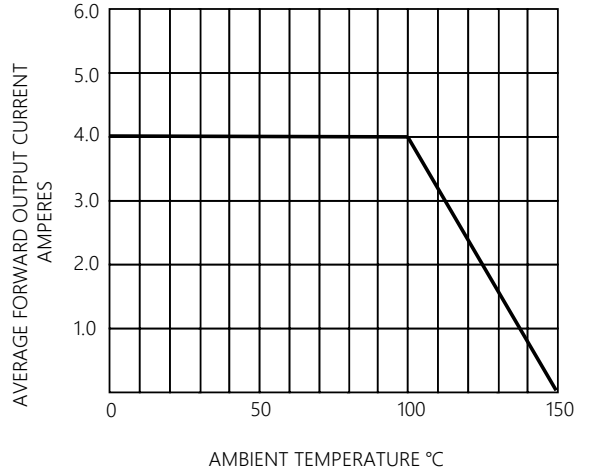


FIG.3-TYPICAL FORWARD CHARACTERISTICS

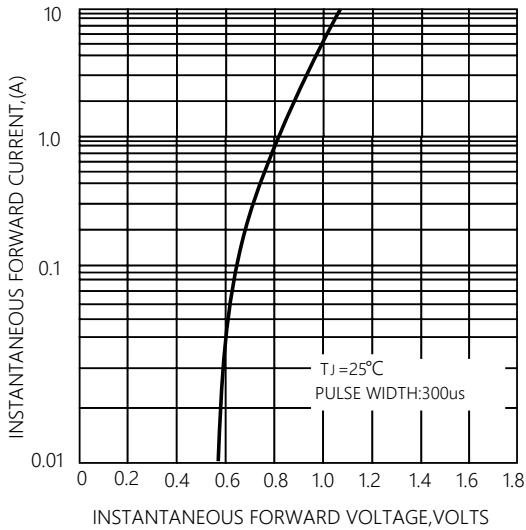
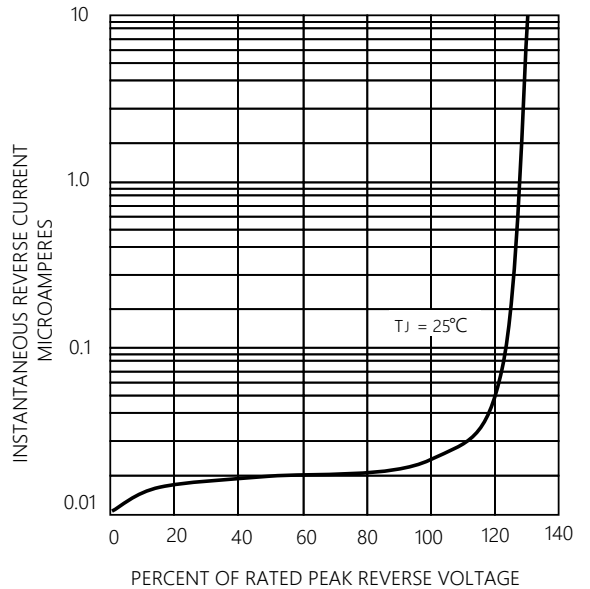


FIG.4 -TYPICAL REVERSE  
CHARACTERISTICS



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