

## FEATURES

- ◆ Ideal for printed circuit board
- ◆ Surge overload rating -125 Amperes peak
- ◆ Glass passivated chip

## MECHANICAL DATA

**Case:** Molded plastic body

**Lead:** Solder plated

**Polarity:** As marked

## 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%

CHARACTERISTICS	SYMBOL	KBL405	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current at 50°C T <sub>A</sub> (Note1)	I(AV)	4.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	IFSM	125							A
Maximum Forward Voltage Drop Per Element at 4.0A Peak	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	10.0							μA
Maximum Reverse Current at Rated DC Blocking Voltage and 150°C T <sub>A</sub>	I <sub>R</sub>	1.0							mA
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

NOTES : 1. Mounting conditions ,0.5" lead length maximum.

FIG.1-MAXIMUM FORWARD SURGE

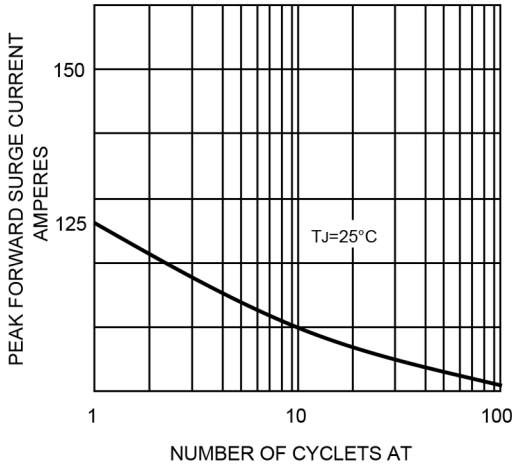


FIG.1-DERATING CURVE  
OUTPUT RECTIFIED

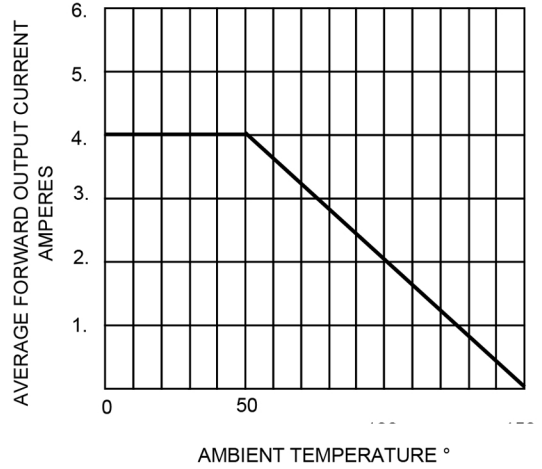


FIG.4-TYPICAL FORWARD

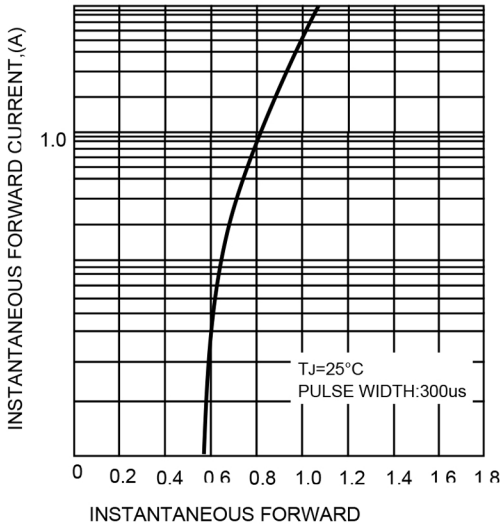


FIG.4- TYPICAL REVERSE  
CHARACTERISTICS

