SZCJ

Shenzhen Changji Semiconductor Co., LTD.

KBL Plastic-Encapsulate Bridge Rectifier

KBL4005 THRU KBL410

General Purpose Bridge Rectifier

Features

- I_O 4A
- VRRM 50V-1000V
- High surge current capability
- Glass passivated chip

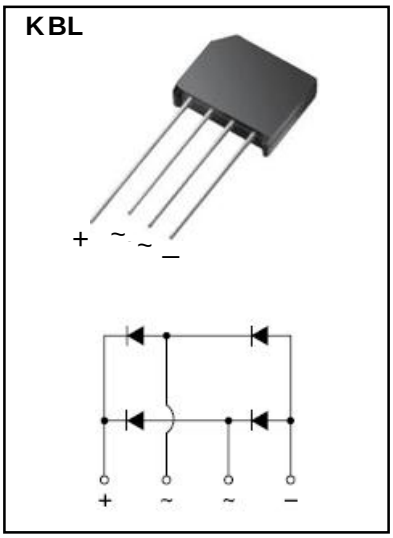
Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- KBL4XX

XX：From 005 To 10



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	KBL4						
				005	01	02	04	06	08	10
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000
Average Rectified Output Current	I_O	A	60Hz sine wave, R-load T_a =50℃	4						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60H_Z half-sine wave, 1 cycle, T_j=25℃	125						
Current Squared Time	I^2t	A^2S	1ms≤t<8.3ms Tj=25℃， Rating of per diode	64.8						
Storage Temperature	T_{stg}	℃		-55 ~+150						
Junction Temperature	T_j	℃		-55 ~+150						

Electrical Characteristics（T_a=25℃ Unless otherwise specified）

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	I_{FM}=4.0A, Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	I_{RRM}	μA	V_{RM}=V_{RRM} , Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-A}$	℃/W	Between junction and ambient	13
	$R_{\theta J-C}$		Between junction and case	2.4

Typical Characteristics

FIG.1-MAXIMUM NON-REPETITIVE SUNRGE CURRENT

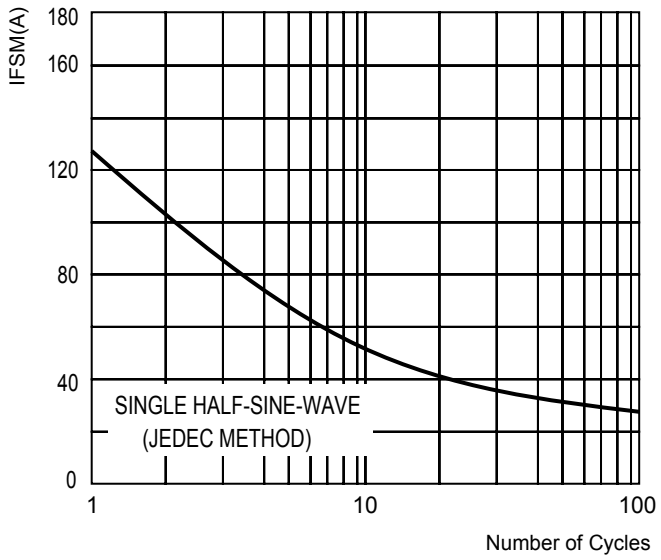


FIG.2-FORWARD CURRENT DERATING CURVE

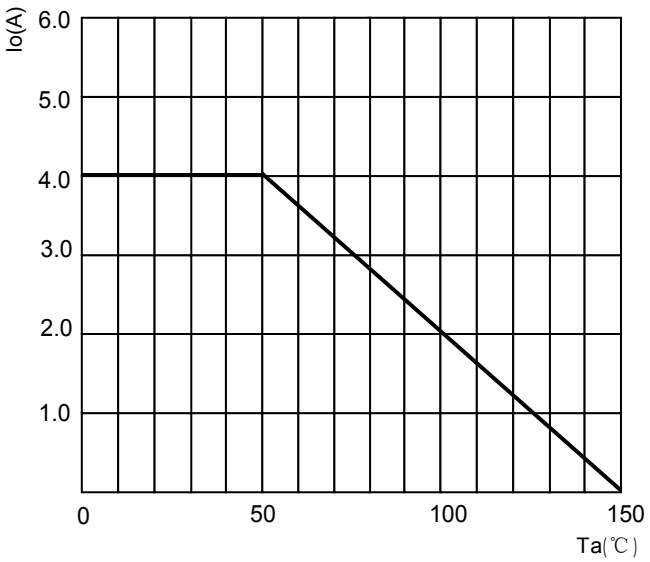


FIG.3-TYPICAL FORWARD CHARACTERISTICS

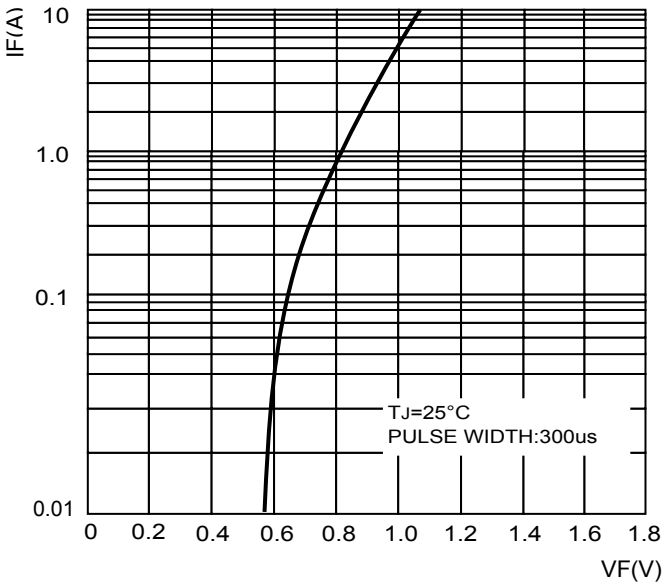
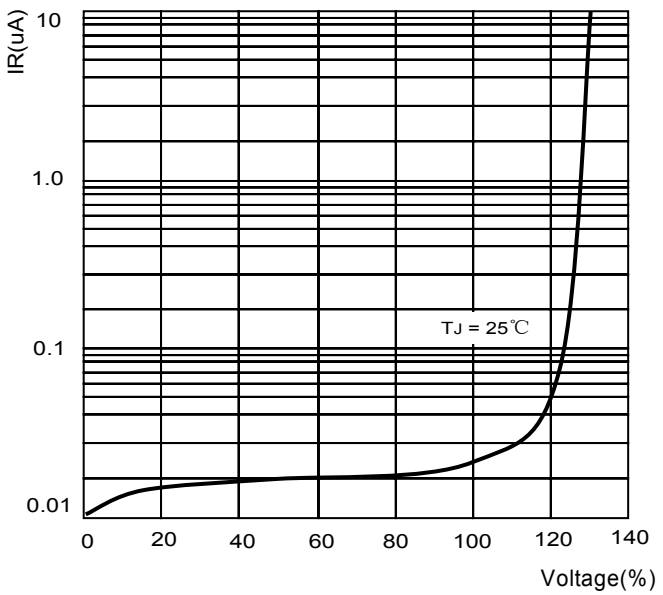
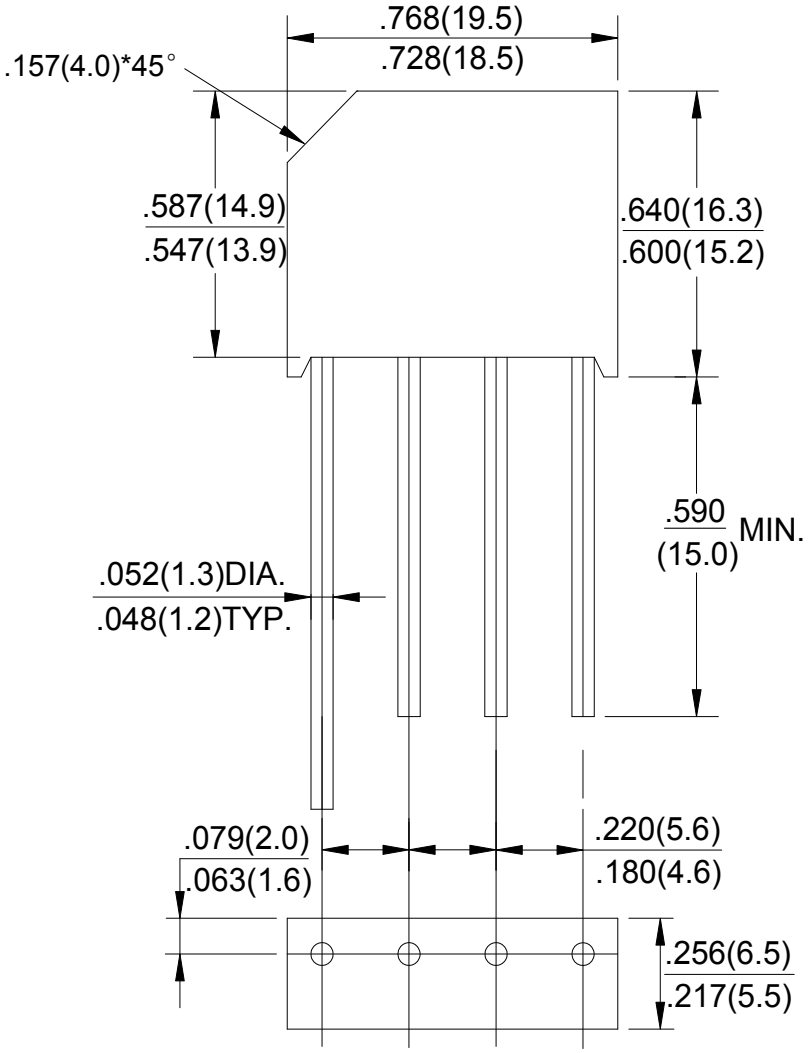


FIG.4-TYPICAL REVERSE CHARACTERISTICS



KBL Package Outline Dimensions



Dimensions in inches and (milimeters)

NOTICE

SZCJ reserves the right to make modifications,enha nts,improvements,corrections or other es without further notice to any product herein.SZCJ does not assume any liability arising out of the application or use of any product described .