



KBU Plastic-Encapsulate Bridge Rectifier

KBU8005 THRU KBU810

General Purpose Bridge Rectifier

Features

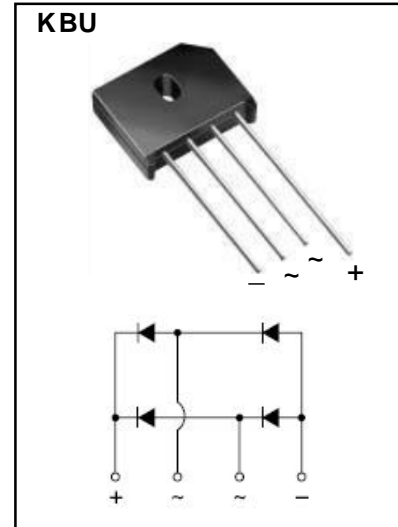
- I_O 8A
- VRRM 50V-1000V
- High surge current capability
- Glass passivated chip

Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- KBU8XX
- XX : From 005 To 10



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	KBU8						
				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 _c = 100°C		8				
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz sine wave, 1 cycle, T _J =25°C		200					
Current Squared Time	I ² t	A ² S	1ms ≤ t < 8.3ms T _J =25°C, Rating of per diode		93					
Storage Temperature	T _{stg}	°C	-55 ~ +150							
Junction Temperature	T _J	°C	-55 ~ +150							

Electrical Characteristics (T_a=25°C 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	1.0
Peak Reverse Current	I _{RRM}	μA	V _{RM} =V _{RRM} , Pulse measurement, Rating of per diode	10
Thermal Resistance	R _{θ J-A}	°C/W	Between junction and ambient	g ⁽¹⁾
	R _{θ J-C}		Between junction and case	3.7 ⁽²⁾

Typical Characteristics

FIG.1-MAXIMUM FORWARD SURGE CURRENT

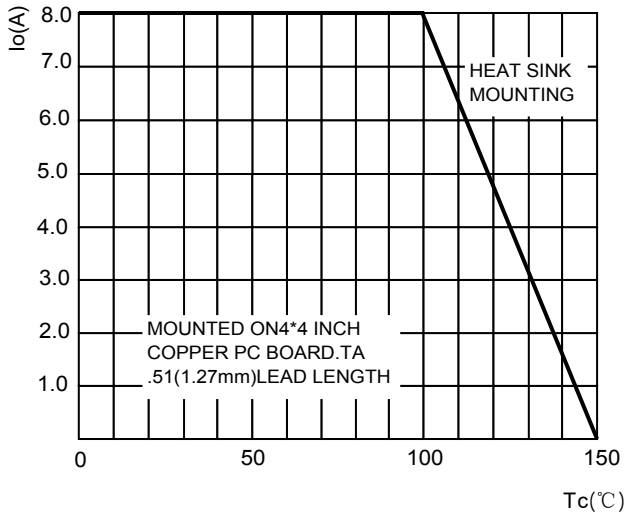


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

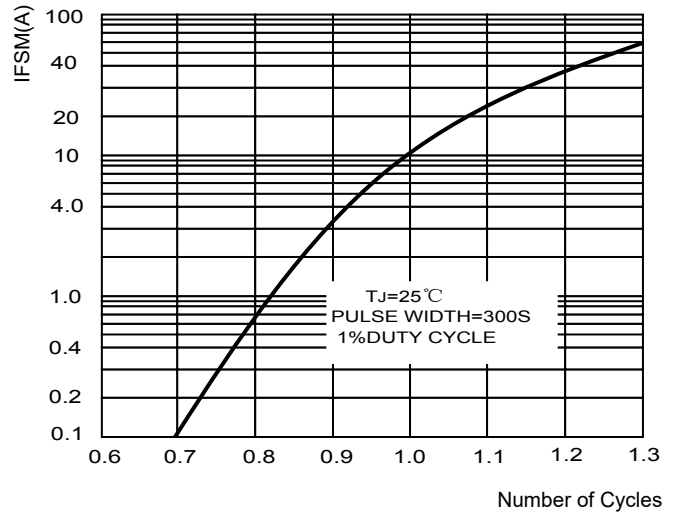


FIG.3-TYPICAL FORWARD CHARACTERISTICS

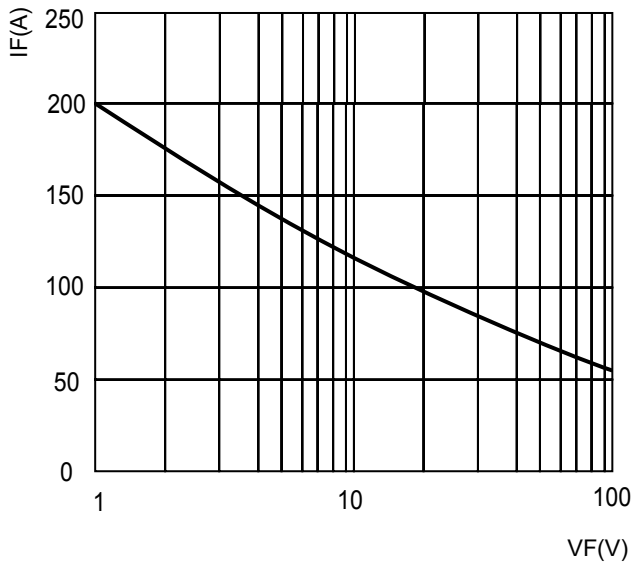


FIG.4-TYPICAL REVERSE CHARACTERISTICS

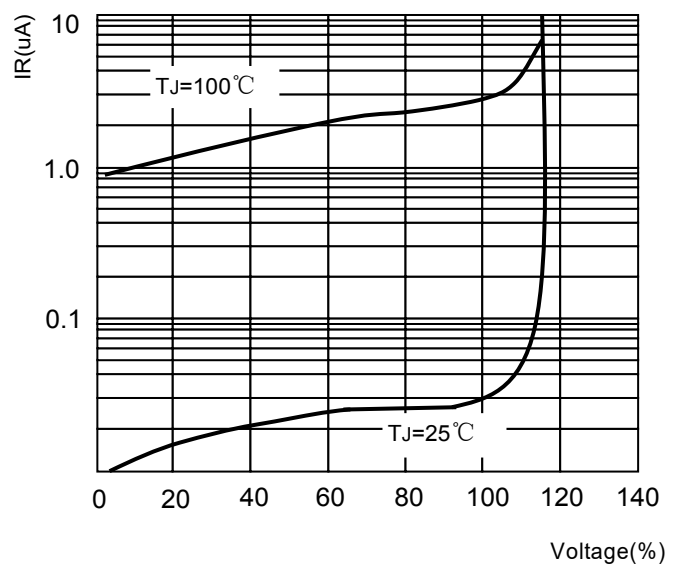
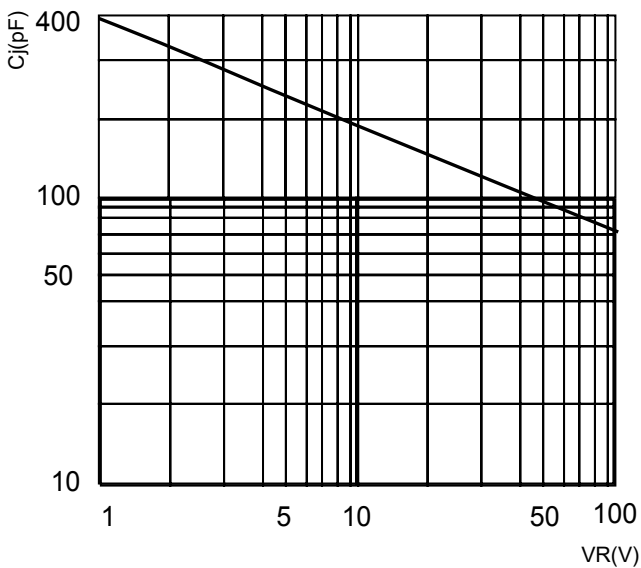
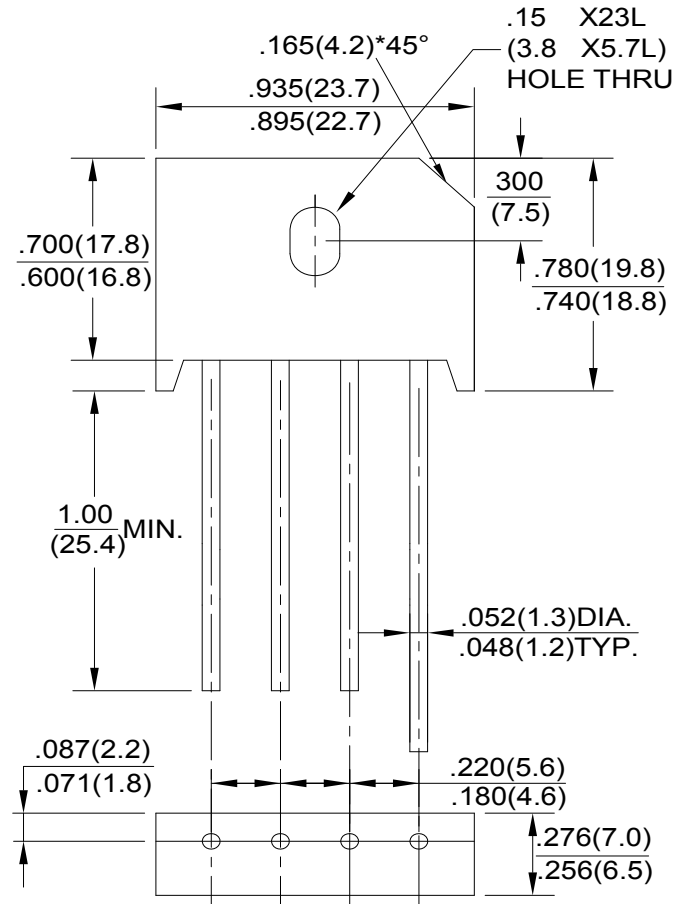


FIG.5-TYPICAL JUNCTION CAPACITANCE



KBU Package Outline Dimensions



Dimensions in inches and (millimeters)

NOTICE

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