Bridge Rectifier

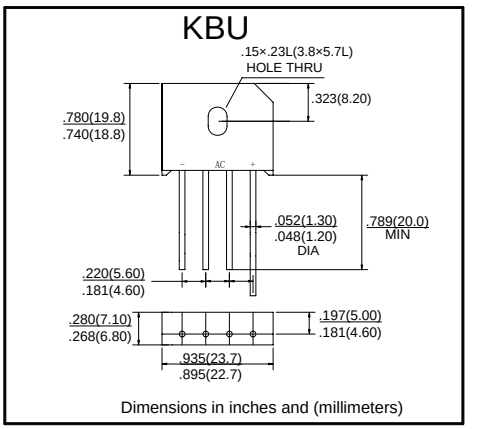
■ Features

- I_o 4A
- V_{RRM} 50V~1000V
- Glass passivated chip
- High surge forward current capability

■ Applications

- General purpose 1 phase Bridge rectifier applications

■ Outline Dimensions and Mark



Dimensions in inches and (millimeters)

■ Limiting Values（Absolute Maximum Rating）

Item	Symbol	Unit	Conditions		KBU 005	01	02	04	06	08	10
Repe itive 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	Tc=90℃	4						
				Ta=40℃	4						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, T_a=25℃		150						
Current Squared Time	I^2t	A^2s	1ms≤t＜8.3ms T_j=25℃,Rating of per diode		93						
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}=4A, Pulse measu ement 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(1)
	$R_{\theta J-C}$		Between iunction and case	7 5(2)

(Notes）:

（1）Units Mounted in free air ,no heat sink,P.C.B. at 0.375” (9.5mm) lead length with 0.5×0.5”(12×12mm) copper pads.
（2）Units Mounted on a aluminum plate heat sink.

■ Characteristics(Typical)

FIG1:Io-T Curve

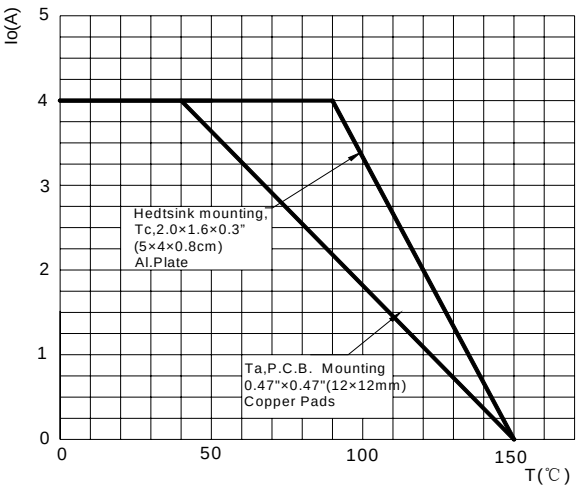


FIG2:Surge Forward Current Capadility

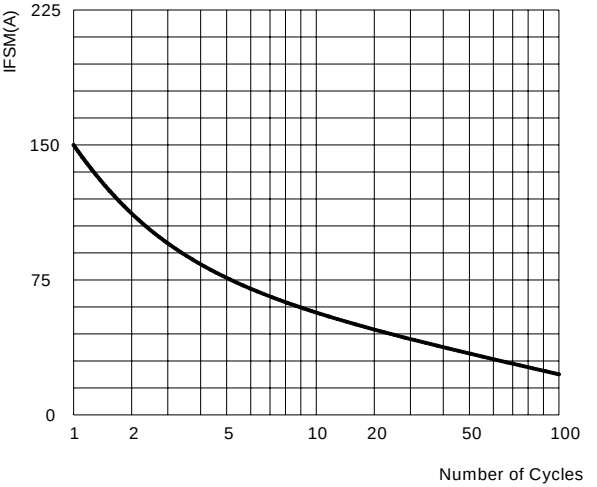


FIG3:Instantaneous Forward Voltage

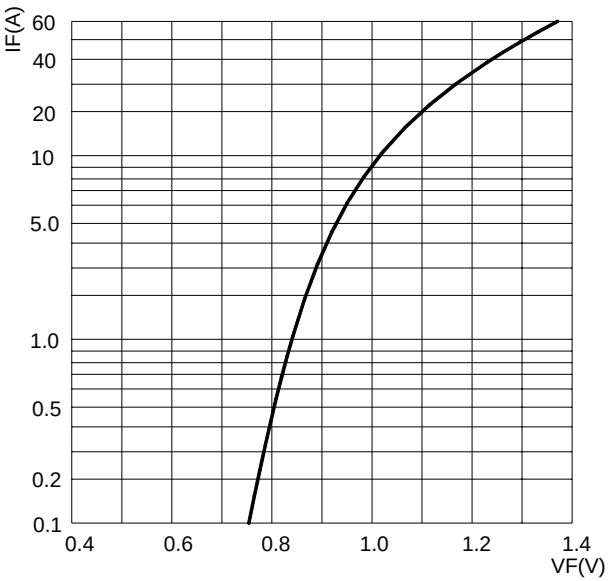


FIG4:Typical Reverse Characteristics