



Bridge Rectifier

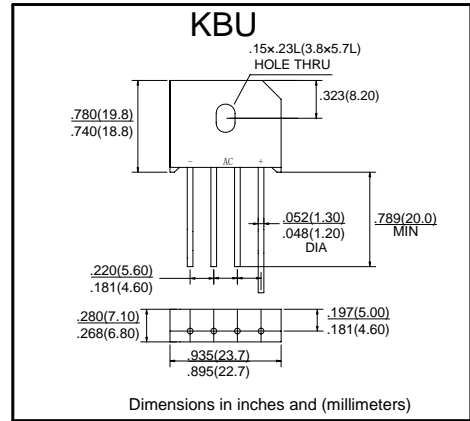
■ Features

- I_o 6A
- V_{RRM} 50V~1000V
- Glass passivated chip
- High surge forward current capability

■ Applications

- General purpose 1 phase Bridge rectifier applications

■ Outline Dimensions and Mark



■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	KBU6						
				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	$T_c=90^\circ\text{C}$	6					
				$T_a=40^\circ\text{C}$	6					
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$	150						
Current Squared Time	I^2t	A^2s	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$, Rating of per diode	93						
Storage Temperature	T_{stg}	$^\circ\text{C}$		-55 ~ +150						
Junction Temperature	T_j	$^\circ\text{C}$		-55 ~ +150						

■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_M=6\text{A}$, 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	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	Between junction and ambient	9 ⁽¹⁾
	$R_{\theta J-C}$		Between junction and case	5 ⁽²⁾

(Notes) :

- (1) Units Mounted in free air ,no heat sink,P.C.B. at 0.375" (9.5mm) lead length with 0.5x0.5"(12x12mm) copper pads.
- (2) Units Mounted on a aluminum plate heat sink.



Characteristics(Typical)

FIG1:Io-T Curve

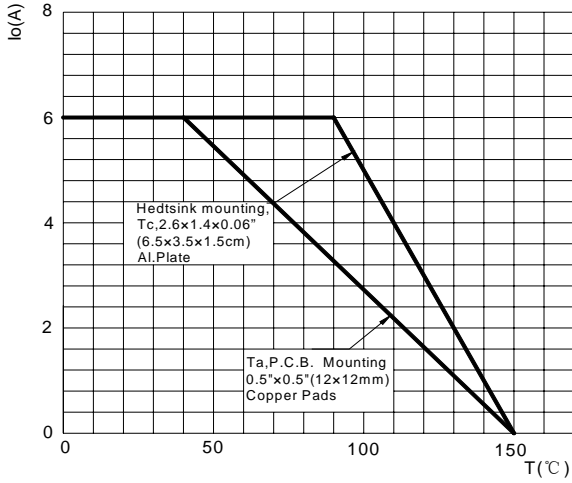


FIG2: Surge Forward Current Capacity

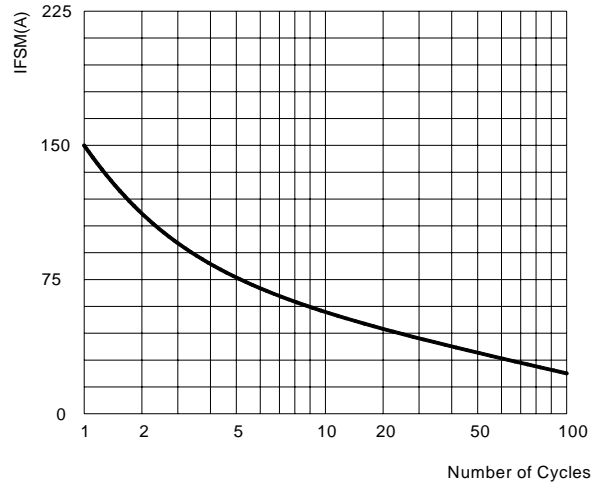


FIG3: Instantaneous Forward Voltage

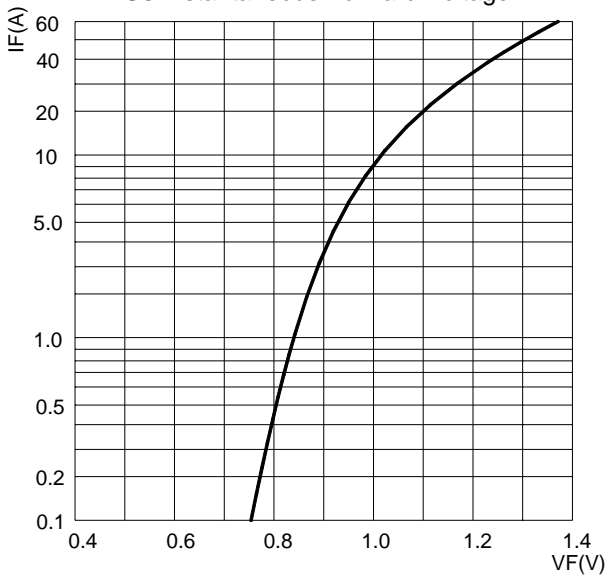


FIG4: Typical Reverse Characteristics

