

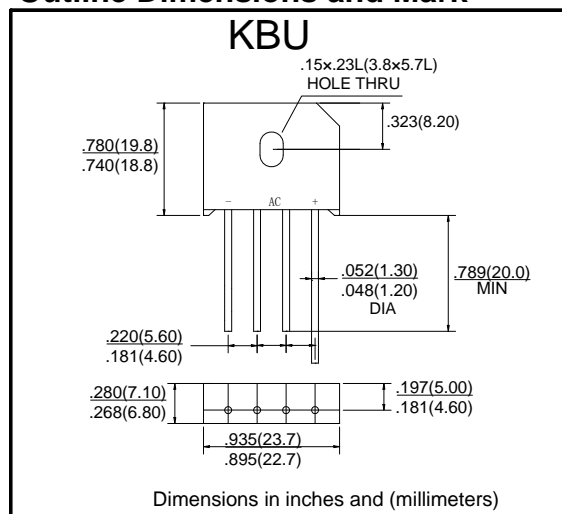
### Features

- $I_o$ : 8A
- $V_{RRM}$ : 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	RS8							
				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	$T_c=90^\circ\text{C}$	8						
				$T_a=40^\circ\text{C}$	6						
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$	180							
Current Squared Time	$I^2t$	$\text{A}^2\text{s}$	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ , 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	$I_{FM}=4\text{A}$ , Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	$I_{RRM}$	$\mu\text{A}$	$V_{RM}=V_{RRM}$ , 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	$3.7^{(2)}$

#### 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)

