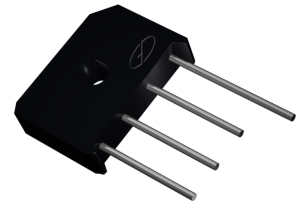


**Features**

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



Package: KBU

**Applications**

- General purpose 1 phase bridge rectifier applications

**Absolute Maximum Ratings** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

Item	Symbol	Unit	Conditions	RS6						
				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	$T_c=115^\circ\text{C}$	6					
					$T_a=25^\circ\text{C}$	2.5				
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz sine wave, 1 cycle	135						
Current Squared Time	$I^2t$	$\text{A}^2\text{s}$	1ms<t<8.3ms $T_j=25^\circ\text{C}$ , Rating of per diode	75						
Storage Temperature	$T_{stg}$	$^\circ\text{C}$	-	-55 ~ +150						
Junction Temperature	$T_j$	$^\circ\text{C}$	-	-55 ~ +150						

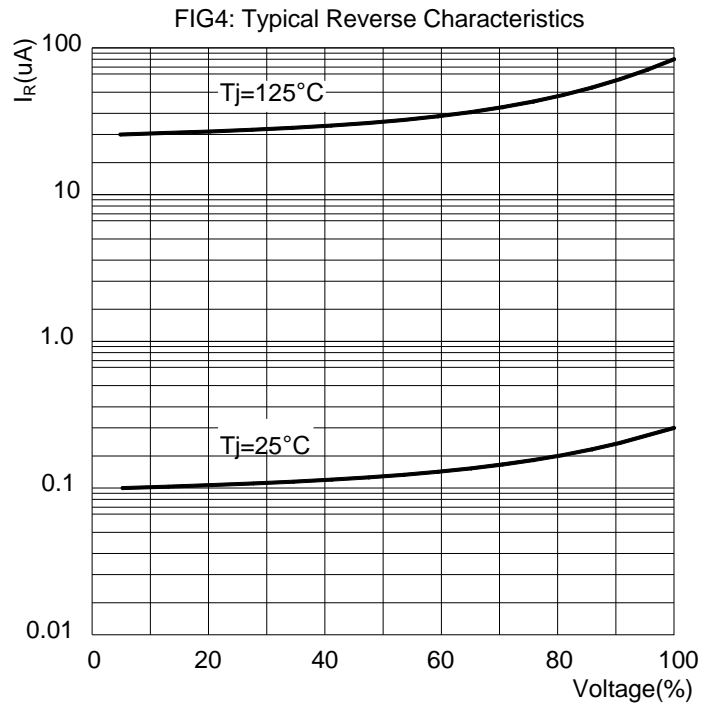
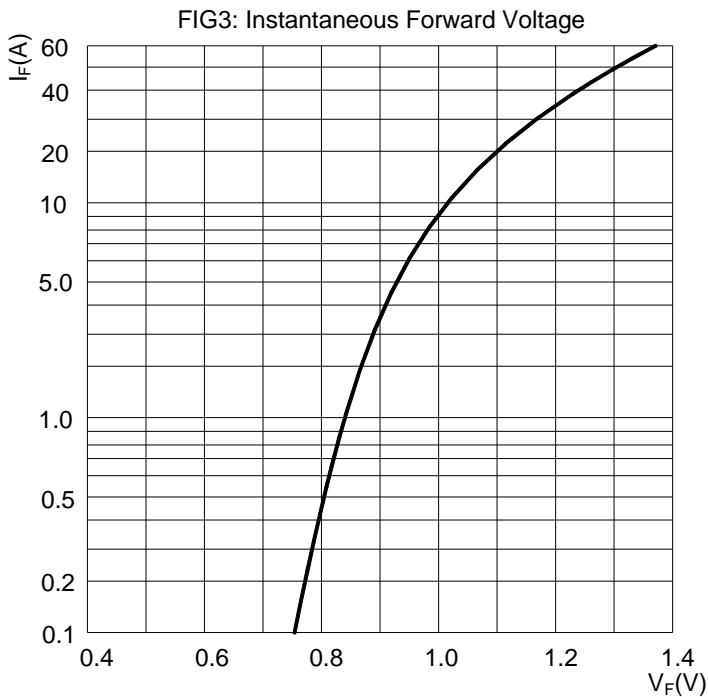
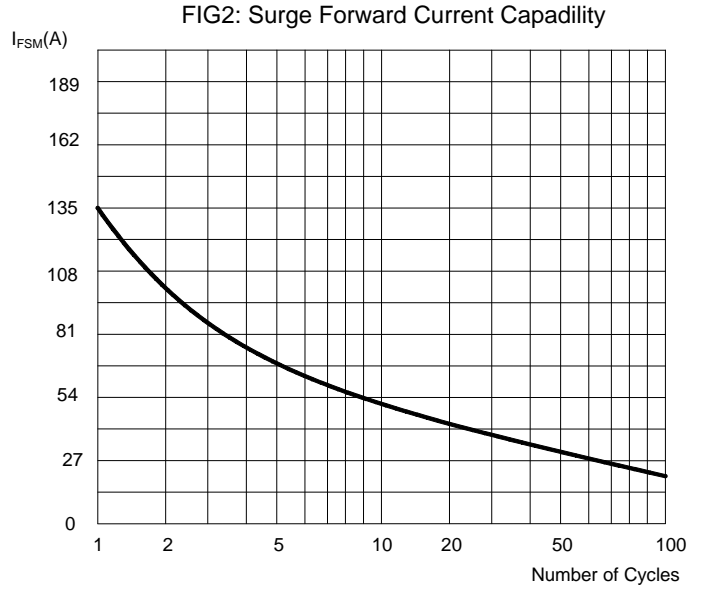
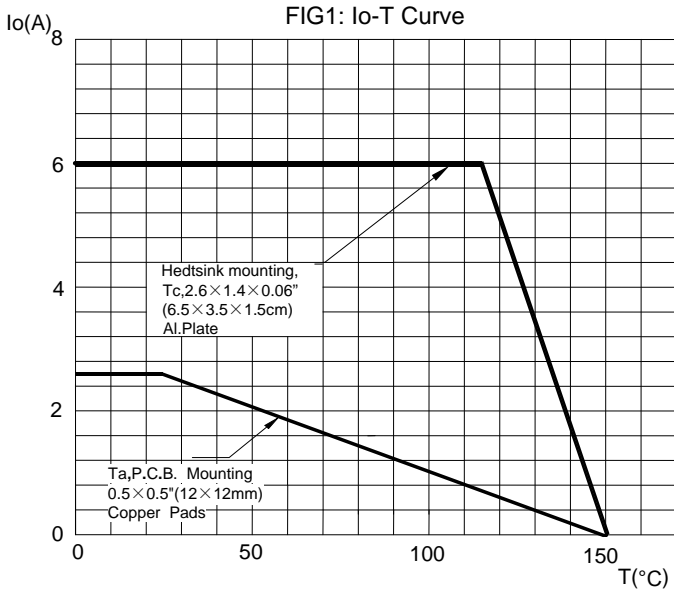
**Electrical Characteristics** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

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

Notes

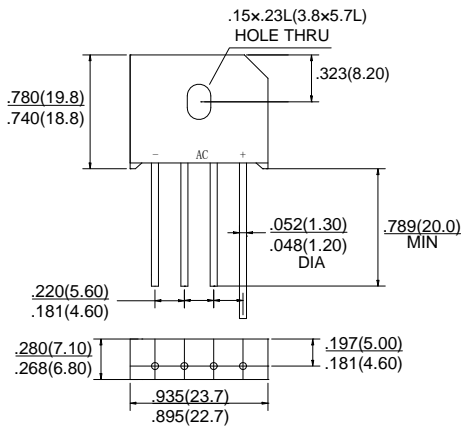
1. Units Mounted in free air ,no heat sink,P.C.B. at 0.375" (9.5mm) lead length with 0.5x0.5"(12x12mm) copper pads
2. Units Mounted on a aluminum plate heat sink.

**Typical Electrical Characteristic Curves**



**Package Outline Dimensions**

**KBU**



Dimensions in inches and (millimeters)