



## KBU Plastic-Encapsulate Bridge Rectifier

### KBU6005 THRU KBU610

General Purpose Bridge Rectifier

#### Features

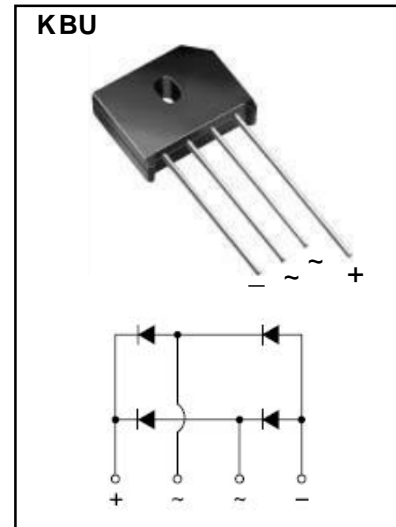
- $I_o$  6A
- $V_{RRM}$  50V-1000V
- High surge current capability
- Glass passivated chip

#### Applications

- General purpose 1 phase Bridge rectifier applications

#### Marking

- KBU6XX
- XX : From 005 To 10



#### 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 $T_c = 115^\circ\text{C}$                                  | 6          |     |     |     |     |     |      |
| Surge(Non-repetitive)Forward Current | $I_{FSM}$ | A                    | 60Hz sine wave, 1 cycle, $T_j = 25^\circ\text{C}$                                 | 175        |     |     |     |     |     |      |
| 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 | 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 specified)

| Item                 | Symbol           | Unit                      | Test Condition  | Max       |
|----------------------|------------------|---------------------------|---|-----------|
| Peak Forward Voltage | $V_{FM}$         | V                         | $I_{FM} = 6.0\text{A}$ , Pulse measurement, Rating of per diode | 1.0       |
| 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                                       | $5^{(2)}$ |

# Typical Characteristics

FIG.1-MAXIMUM FORWARD SURGE CURRENT

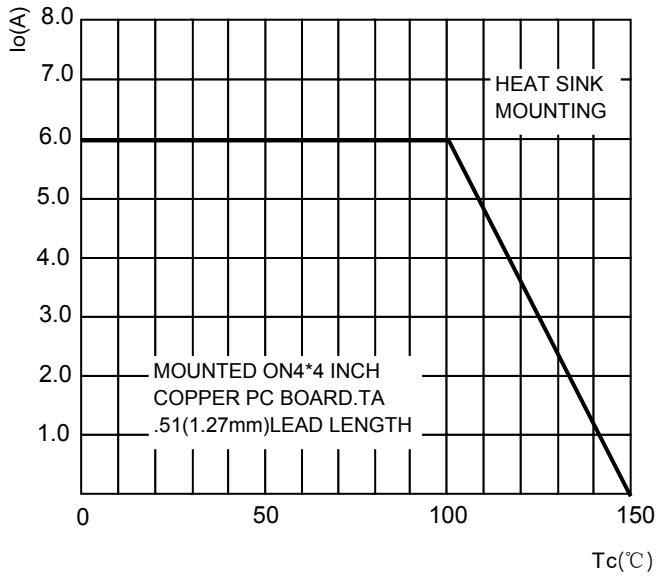


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

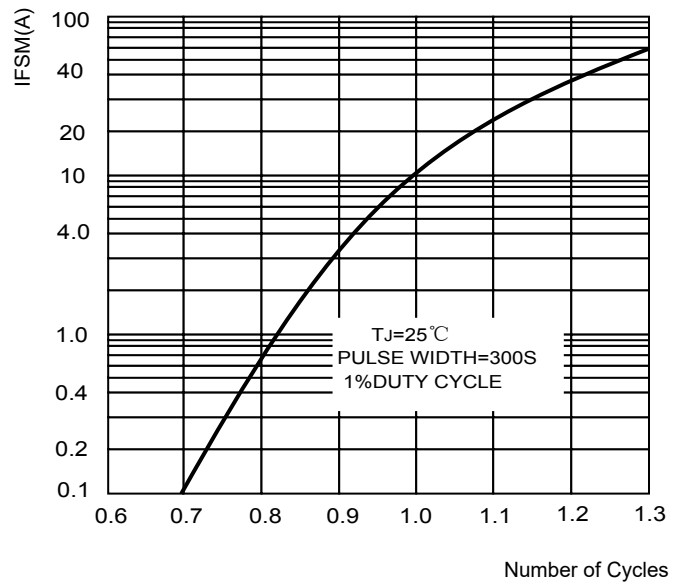


FIG.3-TYPICAL FORWARD CHARACTERISTICS

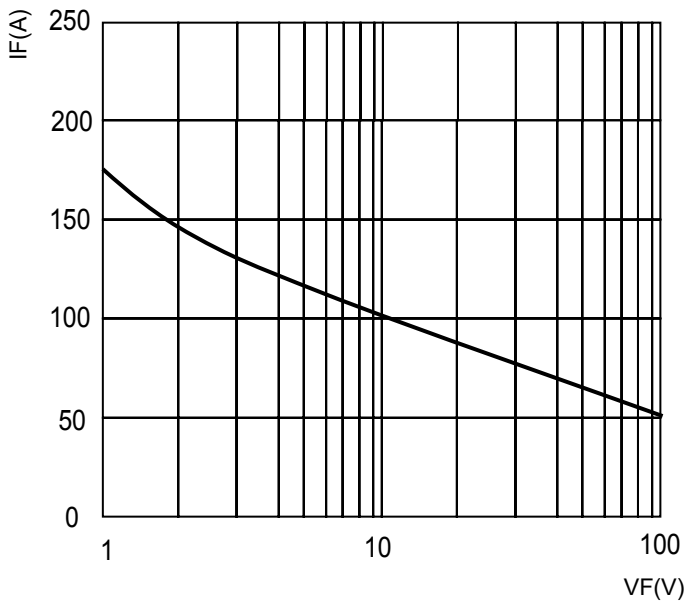


FIG.4-TYPICAL REVERSE CHARACTERISTICS

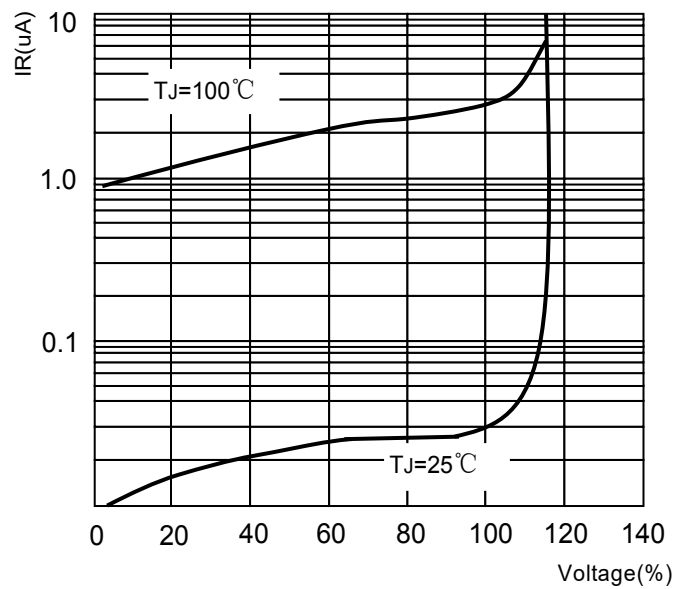
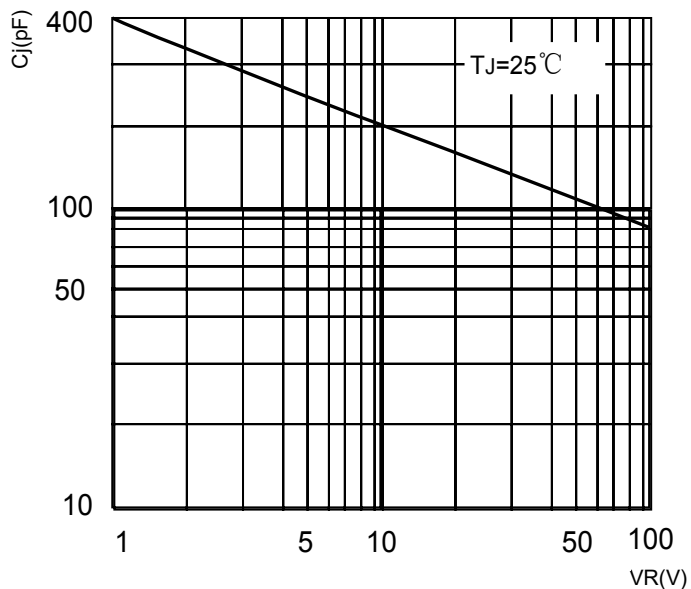
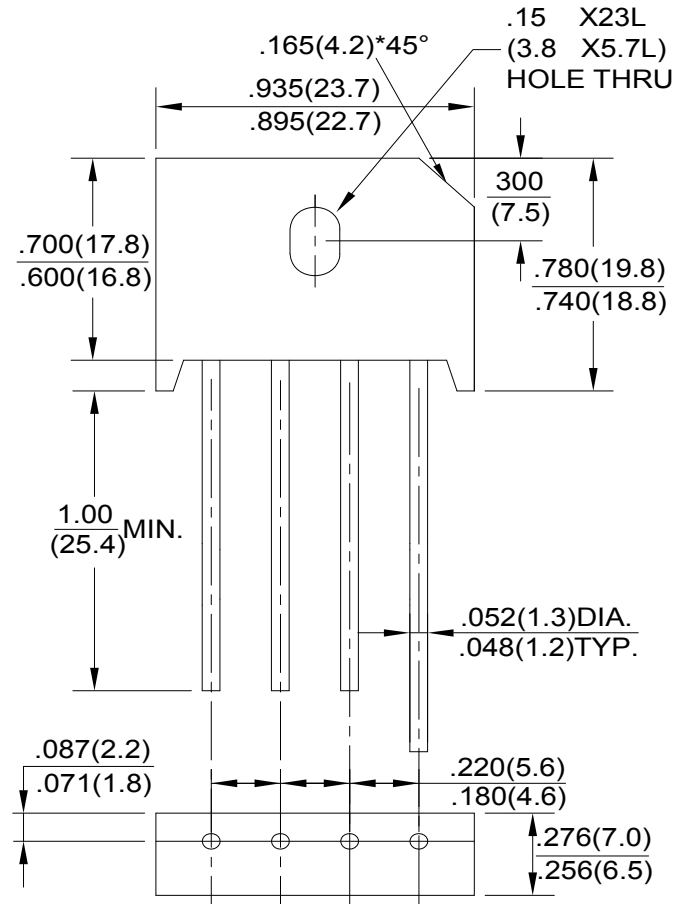


FIG.5-TYPICAL REVERSE CHARACTERISTICS



# KBU Package Outline Dimensions



Dimensions in inches and (millimeters)

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