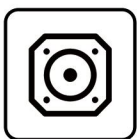


自主封測 品質把控 售後保障

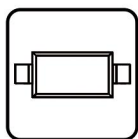
WEB | [WWW.TDSEMIC.COM](http://WWW.TDSEMIC.COM)



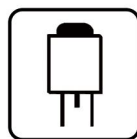
電源管理



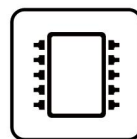
顯示驅動



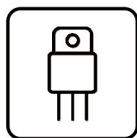
二三極管



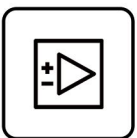
LDO穩壓器



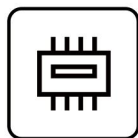
觸摸芯片



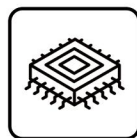
MOS管



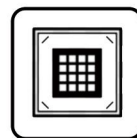
運算放大器



存儲芯片



MCU



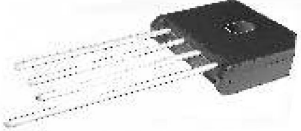
串口通信

# KBU810-TD

產品規格說明書

## 8.0 A Single-Phase Silicon Bridge Rectifier

Rectifier Reverse Voltage 50 to 1000V

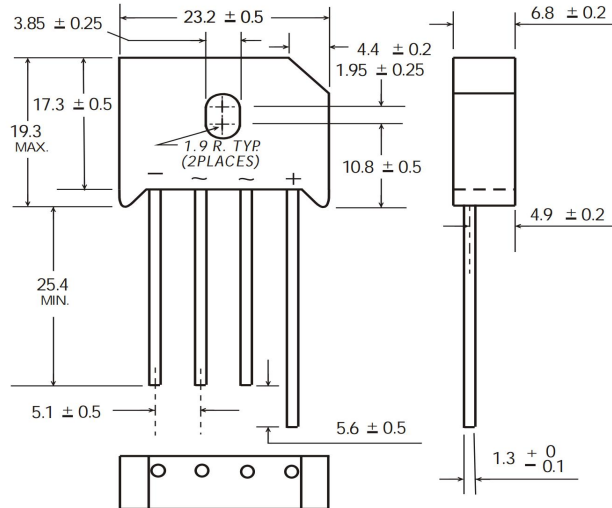


### Features

- Ideal for P.C. Board mounting
- High surge current capability
- This series is UL listed under the Recognized Component Index, file number E142814
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- High temperature soldering guaranteed 265°C / 10 seconds at 5 lbs (2.3kg) tension

### Mechanical Data

Case: Molded plastic body  
 Terminals: Plated leads solderable per MIL-STD-202, Method 208  
 Polarity: Polarity symbols molded on body  
 Mounting Position:: Any  
 Mounting Torque: 5 in-lbs max.  
 Weight: 0.3 ounce, 8.0 grams (approx)



Dimensions in millimeters(1mm = 0.0394")

### Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.  
 For Capacitive load derate current by 20%.

| Parameter                                                                             | Symbol           | KBU 8005     | KBU 801 | KBU 802 | KBU 804 | KBU 806 | KBU 808 | KBU 810 | Unit               |
|---------------------------------------------------------------------------------------|------------------|--------------|---------|---------|---------|---------|---------|---------|--------------------|
| Maximum repetitive peak reverse voltage                                               | VRRM             | 50           | 100     | 200     | 400     | 600     | 800     | 1000    | V                  |
| Maximum RMS bridge input voltage                                                      | VRMS             | 35           | 70      | 140     | 280     | 420     | 560     | 700     | V                  |
| Maximum DC blocking voltage                                                           | VDC              | 50           | 100     | 200     | 400     | 600     | 800     | 1000    | V                  |
| Maximum average forward rectified output current at TA=100°C                          | IF(AV)           | 8.0          |         |         |         |         |         |         | A                  |
| Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method) | IFSM             | 300          |         |         |         |         |         |         | A                  |
| Rating for fusing ( t<8.3ms)                                                          | I <sup>2</sup> t | 300          |         |         |         |         |         |         | A <sup>2</sup> sec |
| Typical thermal resistance per element (1)                                            | ReJA             | 2.7          |         |         |         |         |         |         | °C / W             |
| Operating junction and storage temperature range                                      | TJ, TSTG         | -55 to + 150 |         |         |         |         |         |         | °C                 |

### Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.  
 For Capacitive load derate by 20 %.

| Parameter                                                                                 | Symbol | KBU 8005  | KBU 801 | KBU 802 | KBU 804 | KBU 806 | KBU 808 | KBU 810 | Unit |
|-------------------------------------------------------------------------------------------|--------|-----------|---------|---------|---------|---------|---------|---------|------|
| Maximum instantaneous forward voltage drop per leg at 8.0A                                | VF     | 1.1       |         |         |         |         |         |         | V    |
| Maximum DC reverse current at rated TA =25°C<br>DC blocking voltage per element TA =125°C | IR     | 10<br>500 |         |         |         |         |         |         | μA   |

**Notes:** (1) Thermal resistance from Junction to Ambient on P.C. board mounting.

## Rating and Characteristic Curves ( $T_A = 25^\circ\text{C}$ Unless otherwise noted ) KBU8005 thru KBU810

**Fig. 1 Derating Curve for Output Rectified Current**

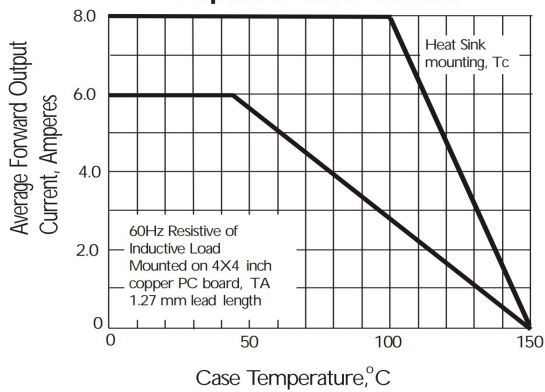


**Fig. 2 Maximum Non-repetitive Peak Forward Surge Current**

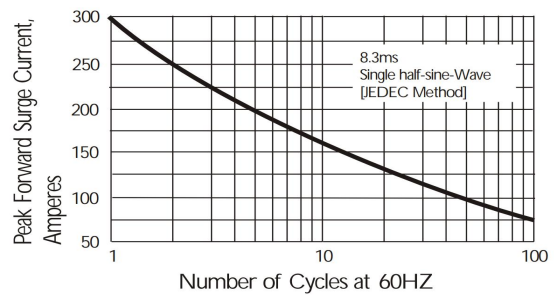


**Fig. 3 Typical Instantaneous Forward Characteristics**

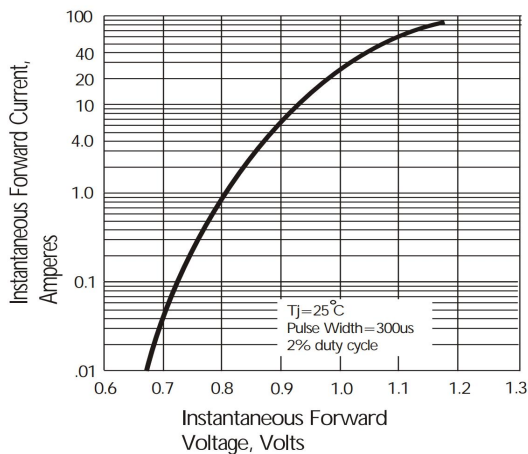


**Fig. 4 Typical Reverse Characteristics**

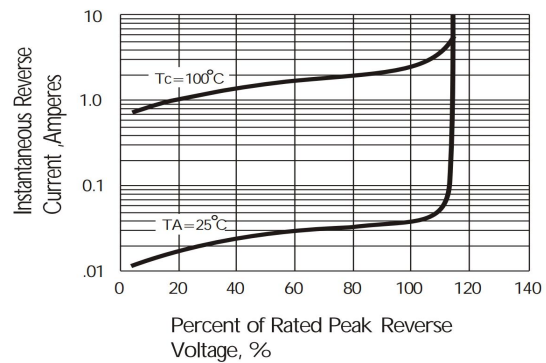


**Fig. 5 Typical Junction Capacitance**

