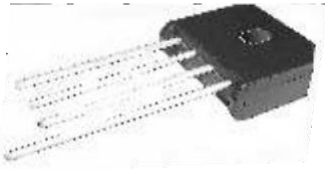




SEP ELECTRONIC CORP.

# KBU15005 thru KBU1510

## 15 A Single-Phase Silicon Bridge Rectifier Rectifier Reverse Voltage 50 to 1000V

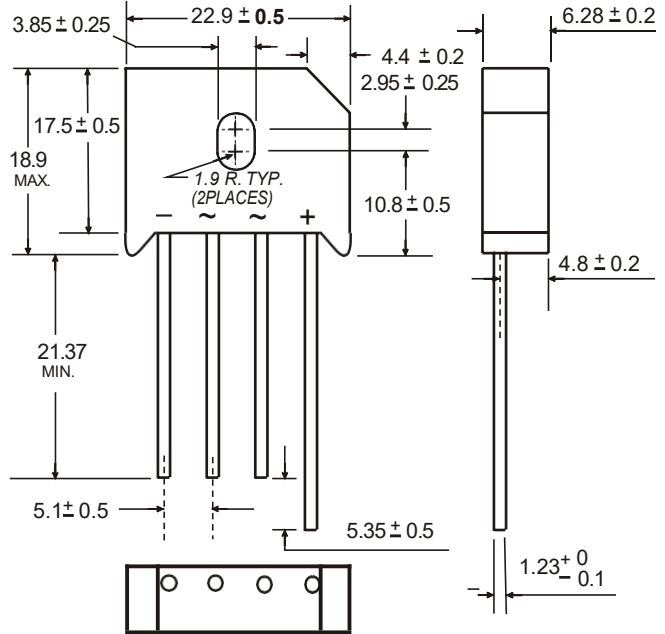


### Features

- 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 15005	KBU 1501	KBU 1502	KBU 1504	KBU 1506	KBU 1508	KBU 1510	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)	15(7.5)							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	250							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

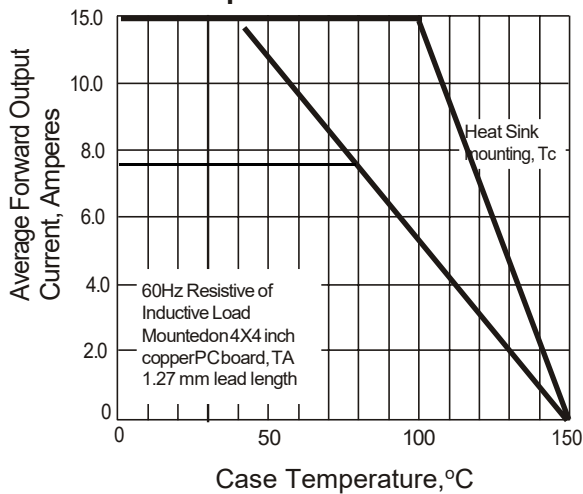
Rating at 25 °C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.  
 For Capacitive load derate by 20 %.

Parameter	Symbol	KBU 15005	KBU 1501	KBU 1502	KBU 1504	KBU 1506	KBU 1508	KBU 1510	Unit
Maximum instantaneous forward voltage drop per leg at 10A	VF	1.05							V
Maximum DC reverse current at rated TA =25 °C DC blocking voltage per element TA =125 °C	IR	10 500							A

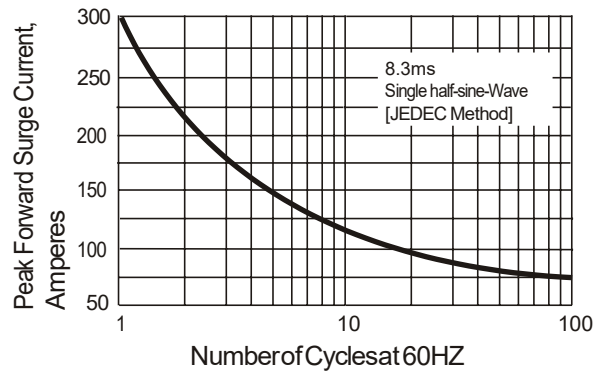
Notes: (1)Thermal resistance from Junction to Ambient on P.C.board mounting.

# Rating and Characteristic Curves ( $T_A = 25^\circ\text{C}$ Unless otherwise noted ) KBU15005 thru KBU1510

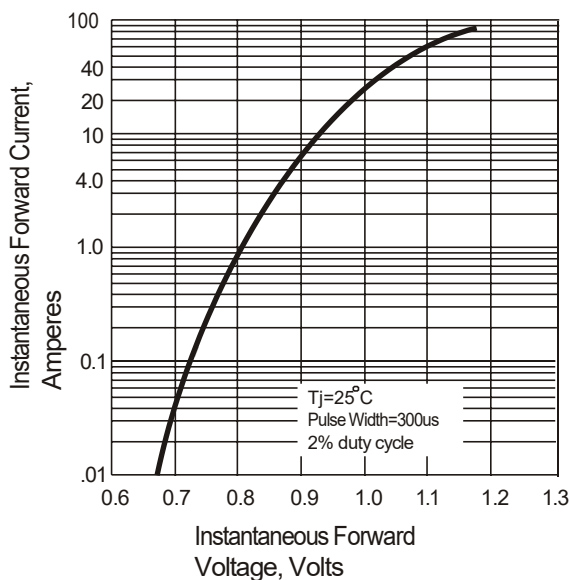
**Fig. 1 Derating Curve for Output Rectified Current**



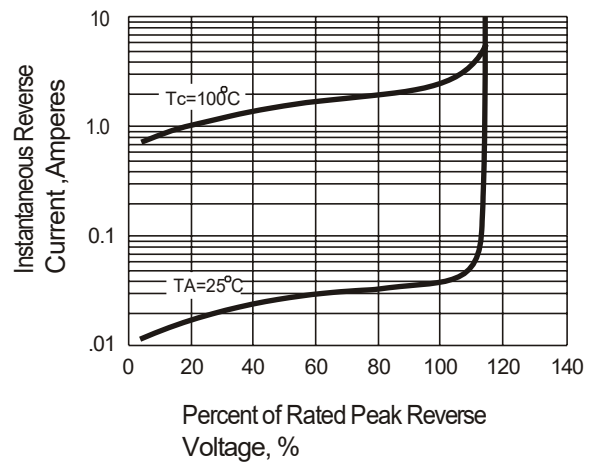
**Fig. 2 Maximum Non-repetitive Peak Forward Surge Current**



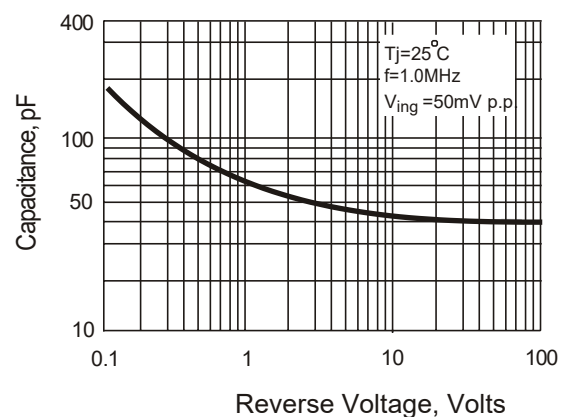
**Fig. 3 Typical Instantaneous Forward Characteristics**



**Fig. 4 Typical Reverse Characteristics**



**Fig. 5 Typical Junction Capacitance**



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