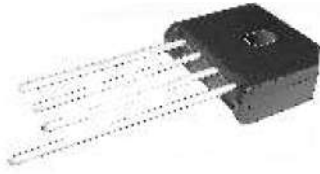




SEP ELECTRONIC CORP.

# KBU35A thru KBU35M

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

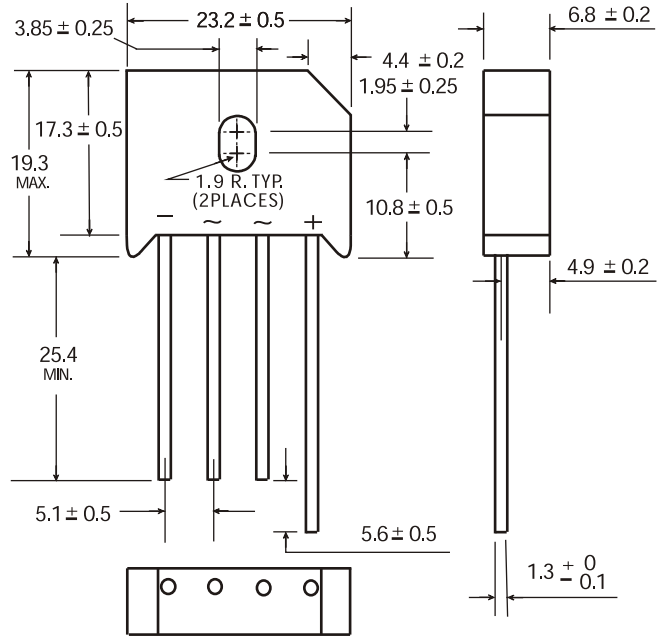


### Features

- Ideal for P.C. Board mounting
- High surge current capability
- For purchase please contact ZENIVO, Assistant E-075583681018-engineer
- 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 = 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 35A	KBU 35B	KBU 35D	KBU 35G	KBU 35J	KBU 35K	KBU 35M	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)	35							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	400							A
Rating for fusing ( t<8.3ms)	I <sup>2</sup> t	240							A <sup>2</sup> sec
Typical thermal resistance per element (1)	ReJA	0.8							°C / W
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150							°C

### Electrical Characteristics

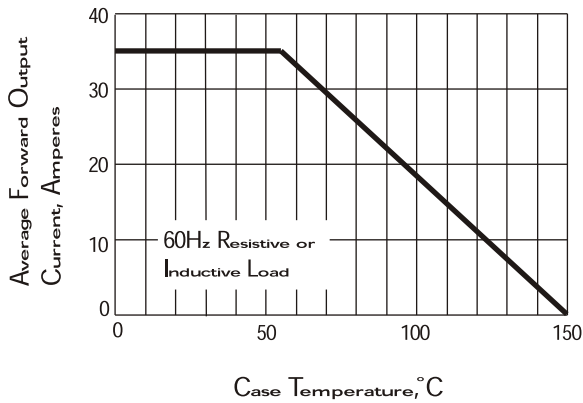
Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.  
 For Capacitive load derate by 20 %.

Parameter	Symbol	KBU 35A	KBU 35B	KBU 35D	KBU 35G	KBU 35J	KBU 35K	KBU 35M	Unit
Maximum instantaneous forward voltage drop per leg at 17.5A	VF	1.0							V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR	10 500							μA

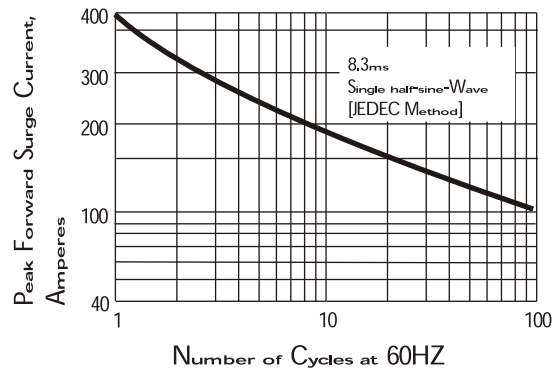
**Notes:** (1) Thermal resistance from Junction to Ambient on P.C. board mounting.

**Rating and Characteristic Curves (  $T_A=25^{\circ}\text{C}$  Unless otherwise noted )**  
**KBU35A thru KBU35M**

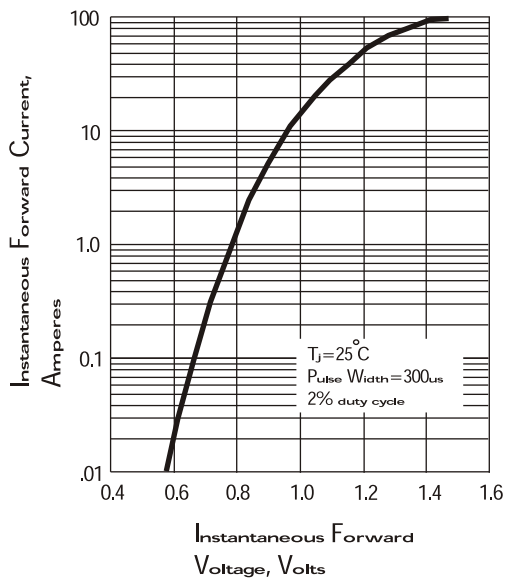
**Fig. 1 Derating Curve for Output Rectified Current**



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



**Fig. 3 Typical Instantaneous Forward Characteristics**



**Fig. 4 Typical Reverse Characteristic**

