

# TIGER ELECTRONIC CO.,LTD KBU600 – KBU610

**6.0A BRIDGE RECTIFIER** 

### **Features**

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- UL Recognized File # E157705

## **Mechanical Data**

Case: Molded Plastic

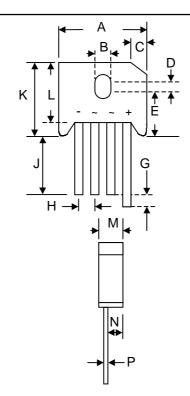
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Body

Weight: 8.0 grams (approx.)

Mounting Position: Any

Marking: Type Number



KBU						
Dim	Min	Max				
Α	22.70	23.70				
В	3.80	4.10				
С	4.20	4.70				
D	1.70	2.20				
Е	10.30	11.30				
G	4.50	6.80				
Н	4.60	5.60				
J	25.40	_				
K	_	19.30				
L	16.80	17.80				
М	6.60	7.10				
N	4.70	5.20				
Р	1.20	1.30				
All Dimensions in mm						

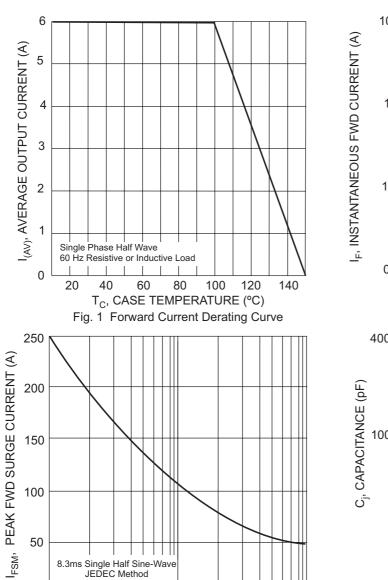
# Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBU 600	KBU 601	KBU 602	KBU 604	KBU 606	KBU 608	KBU 610	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T <sub>C</sub> = 100°C	lo	6.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	250					Α		
Forward Voltage (per element) @I <sub>F</sub> = 3.0A	VFM	1.0					V		
	lR	10 1.0			μA mA				
Rating for Fusing (t < 8.3ms) (Note 1)	l <sup>2</sup> t	166					A <sup>2</sup> s		
Typical Thermal Resistance (Note 2)	RθJC	4.2					K/W		
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150					°C		

Note: 1. Non-repetitive for t > 1ms and < 8.3ms.

2. Thermal resistance junction to case per element mounted on PC board with 13.0x13.0x0.03mm thick land areas.



NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

10

8.3ms Single Half Sine-Wave JEDEC Method

100

50

0

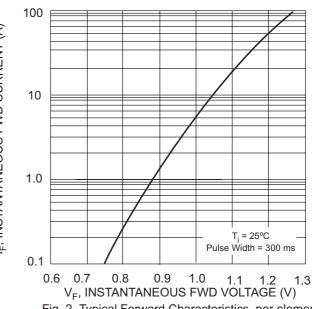


Fig. 2 Typical Forward Characteristics, per element

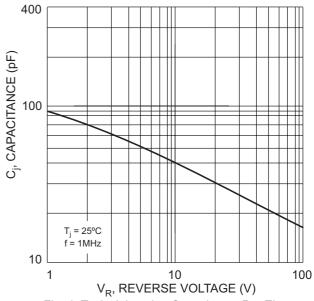
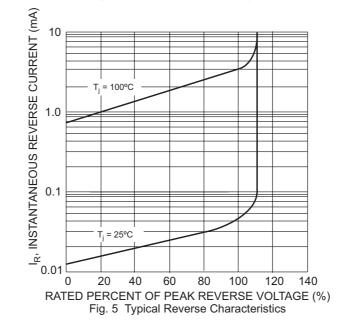


Fig. 4 Typical Junction Capacitance Per Element



100

# **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
KBU600	SIL Bridge	400 Units/Box
KBU601	SIL Bridge	400 Units/Box
KBU602	SIL Bridge	400 Units/Box
KBU604	SIL Bridge	400 Units/Box
KBU606	SIL Bridge	400 Units/Box
KBU608	SIL Bridge	400 Units/Box
KBU610	SIL Bridge	400 Units/Box

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.