

## **KBU600 Thru 610**

Reverse Voltage: 50 - 1000 Volts

Forward Current: 6.0 Amp

#### **Features**

**Diffused Junction** 

Low Forward Voltage Drop

High Current Capability

High Reliability

High Surge Current Capability

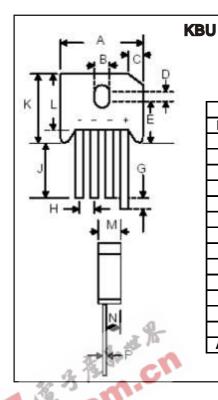
Ideal for Printed Circuit Boards

### **Mechanical Data**

Case: Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Weight: 1.7 grams (approx.) Mounting Position: Any Marking: Type Number



	I/DII							
KBU								
Dim	Min	Max						
Α	22.7	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	ī						
K	-	19.30						
L	16.80	17.80						
М	6.60	7.10						
N	4.70	5.20						
Р	1.20	1.30						
All Di	All Dimensions in mm							

## **Maximum Ratings and Electrical Characterics**

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

CHARACTERISTICS	Symbol	KBU 600	KBU 601	KBU 602	KBU 604	KBU 606	KBU 608	KBU 610	UNIT
Peak Repetitive Reverse Voltage	$V_{RRM}$								
Working Peak Reverse Voltage	$V_{RWM}$	50	100	200	400	600	800	1000	V
DC Blocking Voltage	$V_R$								
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T <sub>A</sub> = 100°C	Ι <sub>ο</sub>	6.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	250							Α
Forward Voltage (per element) @I <sub>F</sub> = 3.0A	$V_{FM}$	1.0							V
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 100^{\circ}C$	I <sub>R</sub>	10 1.0							uA mA
Rating for Fusing (t < 8.3ms) (Note1)	l <sup>2</sup> t	166							$A^2s$
Typical Thermal Resistance (Note2)	R <sub>JC</sub>	4.2							K/W
Operating and Storage Temperature Range	Tj, T <sub>STG</sub>	-65 to +150							°C

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

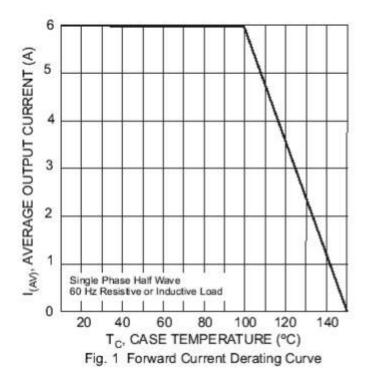
2. Thermal resistance junction to ambient mounted on PC board with 13.0 x 13.0 x 0.03mm thick land areas.

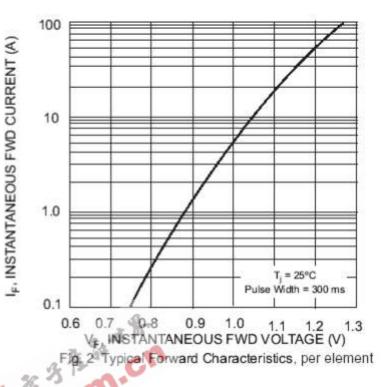
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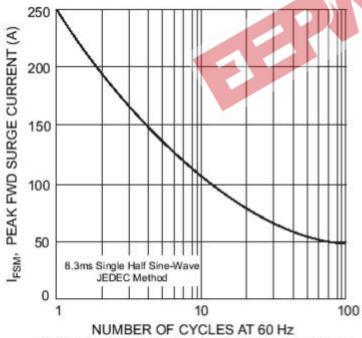
# Silicon Bridge Rectifiers



Rating and Characteristic Curves (KBU600 - KBU610)







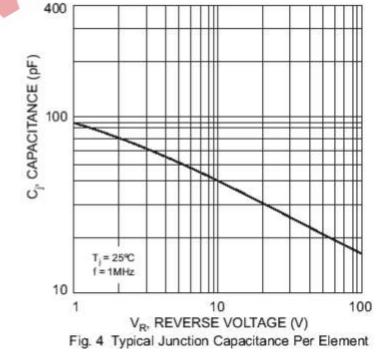
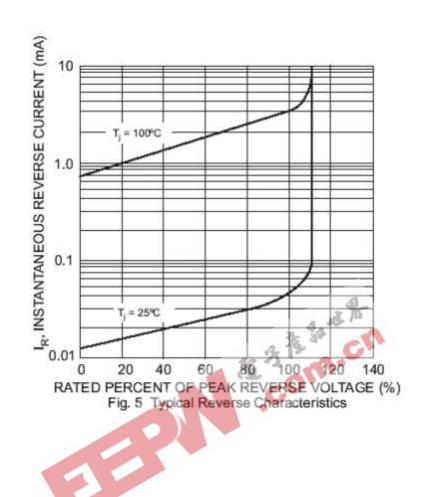


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

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Rating and Characteristic Curves (KBU600 - KBU610)



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