Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Silicon Bridge Rectifier

V_{RRM} = 50 V - 1000 V

I_F = 6 A

Features

- Types up to 1000 V V_{RRM}
- Ideal for printed circuit board
- High forward surge current capability
- High temperature soldering guaranteed 250°C/ 10 seconds
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

KBU Package

Mechanical Data

Case: Molded plastic body

Mounting position: Any

Terminals: Plated leads, solderable per MIL-STD-750, Method 2026

Mounting torque: 5 inch-lbs max

Maximum ratings, at T_j = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	KBU6A	KBU6B	KBU6D	KBU6G	Unit
Repetitive peak reverse voltage	V_{RRM}		50	100	200	400	V
RMS reverse voltage	V_{RMS}		35	70	140	280	V
DC blocking voltage	V_{DC}		50	100	200	400	V
Continuous forward current	I_F	$T_C \leq 100$ °C	6	6	6	6	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	T_C = 25 °C, t_p = 8.3 ms	250	250	250	250	A
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

Electrical characteristics, at Tj = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	KBU6A	KBU6B	KBU6D	KBU6G	Unit
Diode forward voltage	V_F	I_F = 6 A, T_j = 25 °C	1	1	1	1	V
Reverse current	I_R	V_R = 50 V, T_j = 25 °C	10	10	10	10	µA
		V_R = 50 V, T_j = 100 °C	500	500	500	500	

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

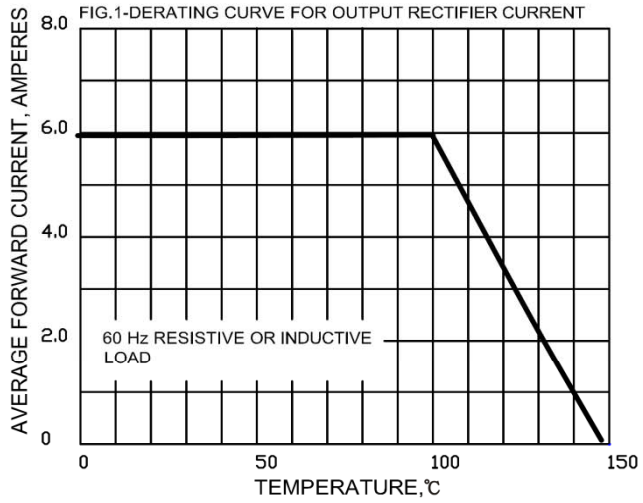

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRE

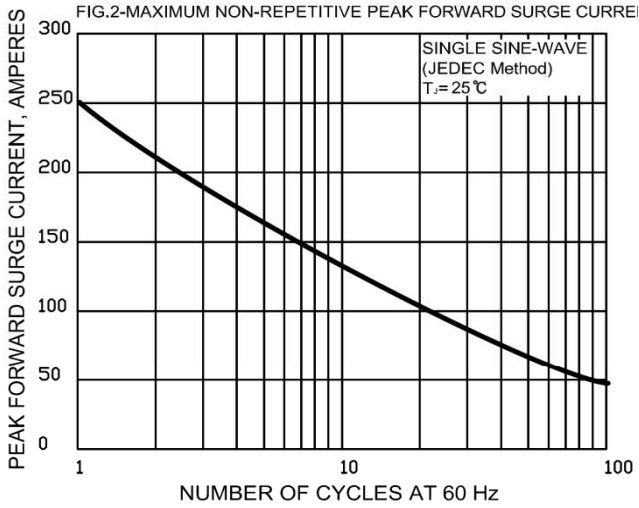

FIG.3-TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT

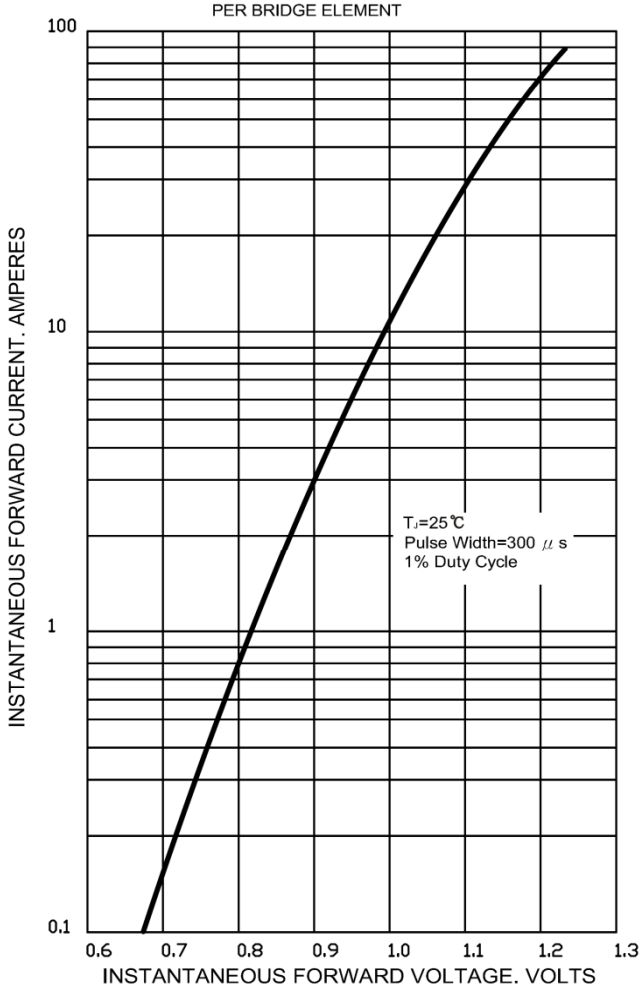

FIG.4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS
PER BRIDGE ELEMENT