



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!



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Silicon Bridge Rectifier

$V_{RRM} = 50\text{ V} - 1000\text{ V}$

$I_F = 6\text{ A} - 8\text{ A}$

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, 0.375"(9.5 mm) lead length, 5 lbs(2.3 kg)
- 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

Weight: 0.268 oz, 7.6 g

Maximum ratings, at $T_j = 25\text{ }^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	KBU8J	KBU8K	KBU8M	Unit
Repetitive peak reverse voltage	V_{RRM}		600	800	1000	V
RMS reverse voltage	V_{RMS}		420	560	700	V
DC blocking voltage	V_{DC}		600	800	1000	V
Continuous forward current	I_F	$T_C \leq 100\text{ }^\circ\text{C}$	8	8	8	A
		$T_C \leq 45\text{ }^\circ\text{C}$	6	6	6	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ }^\circ\text{C}$, $t_p = 8.3\text{ ms}$	300	300	300	A
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$

Electrical characteristics, at $T_j = 25\text{ }^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	KBU8J	KBU8K	KBU8M	Unit
Diode forward voltage	V_F	$I_F = 8\text{ A}$, $T_j = 25\text{ }^\circ\text{C}$	1	1	1	V
Reverse current	I_R	$V_R = 50\text{ V}$, $T_j = 25\text{ }^\circ\text{C}$	10	10	10	μA
		$V_R = 50\text{ V}$, $T_j = 100\text{ }^\circ\text{C}$	500	500	500	μA

