

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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KBJ25005G thru KBJ2504G

Silicon Bridge Rectifier

 $V_{RRM} = 50 \text{ V} - 1000 \text{ V}$ $I_F = 25 \text{ A}$

Features

- \bullet Types up to 1000 V V_{RRM}
- · Ideal for printed circuit board
- · Low forward voltage drop, high current capability
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Reliable, low cost construction utilizing molded plastic technique

KBJ Package



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

Parameter	Symbol	Conditions	KBJ25005G	KBJ2501G	KBJ2502G	KBJ2504G	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 ≤ 110°C, with heatsink	25	25	25	25	Α
		$T_C \le 110$ °C, without heatsink	4.2	4.2	4.2	4.2	
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	$T_C = 25 ^{\circ}\text{C}, t_p = 8.3 \text{ms}$	350	350	350	350	Α
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	KBJ25005G	KBJ2501G	KBJ2502G	KBJ2504G	Unit
Diode forward voltage	V_{F}	I _F = 12.5 A, T _j = 25 °C	1.05	1.05	1.05	1.05	V
Reverse current	I _R	$V_R = 50 \text{ V}, T_i = 25 ^{\circ}\text{C}$	10	10	10	10	μΑ
		$V_R = 50 \text{ V}, T_j = 125 ^{\circ}\text{C}$	500	500	500	500	
Thermal characteristics							
Thermal resistance, junction - case	R _{thJA}		0.6	0.6	0.6	0.6	°C/W





KBJ25005G thru KBJ2504G



