



Technical Data Data Sheet N1828, Rev. - **Green Products**

KBJ10005G THRU KBJ1010G BRIDGE RECTIFIER

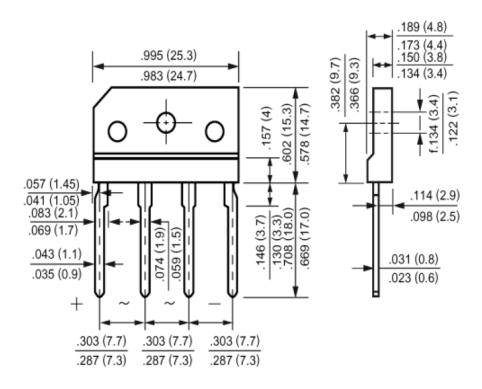
Features:

- · Glass passivated chip
- Reliable low cost construction utilizing molded plastic technique
- Ideal for printed circuit board
- Low forward voltage drop
- Low reverse leakage current
- High surge current capability

Mechanical Data:

- Case: Molded plastic, KBJ
- Epoxy: UL 94V-O rate flame retardant
- Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed
- Mounting position: AnyWeight: 0.16ounce, 4.6gram

Mechanical Dimensions: In Inches/mm



KBJ

MARKING, MOLDING RESIN

Marking for Type Number, 1st row SSG YYWWL, 2nd row Type Number Where YY is the manufacture year

WW is the manufacture week code
L is the wafer's Lot Number

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •



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Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings:

Type Number	Symbol	KBJ 10005G	KBJ 1001G	KBJ 1002G	KBJ 1004G	KBJ 1006G	KBJ 1008G	KBJ 1010G	Unit
Maximum Recurrent Peak Reverse Voltage Maximum DC Blocking Voltage	$V_{RRM} \ V_{DC}$	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _C = 80°C	Ιο	10.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150					А		

Electrical Characteristics:

Type Number		Symbol	KBJ 10005G	KBJ 1001G	KBJ 1002G	KBJ 1004G	KBJ 1006G	KBJ 1008G	KBJ 1010G	Unit
Maximum Forward Voltage	@I _F =5.0A	V_{FM}	1.1							V
Peak Reverse Current	@T _A = 25°C	I _R	10						μΑ	

Thermal-Mechanical Specifications:

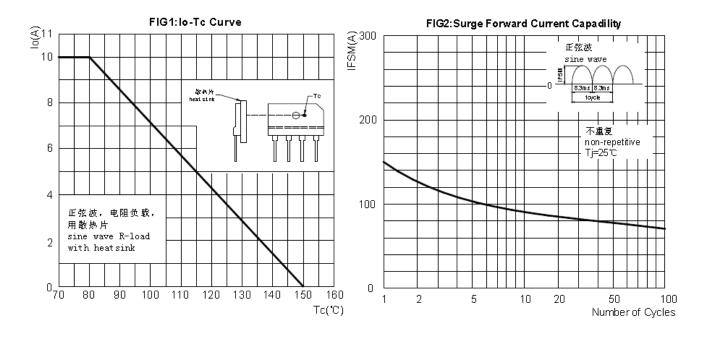
Type Number	Symbol	KBJ 10005G	KBJ 1001G	KBJ 1002G	KBJ 1004G	KBJ 1006G	KBJ 1008G	KBJ 1010G	Unit
Typical Thermal Resistance (Note 1)	$R_{ heta JC}$	2.3							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150						°C	
Case Style	KBJ								

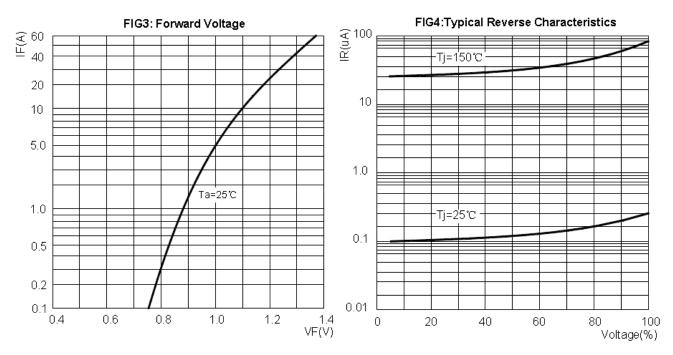
Note: 1. Between junction and case, with heatsink



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