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

KBJ10005G THRU KBJ1010G
BRIDGE RECTIFIER

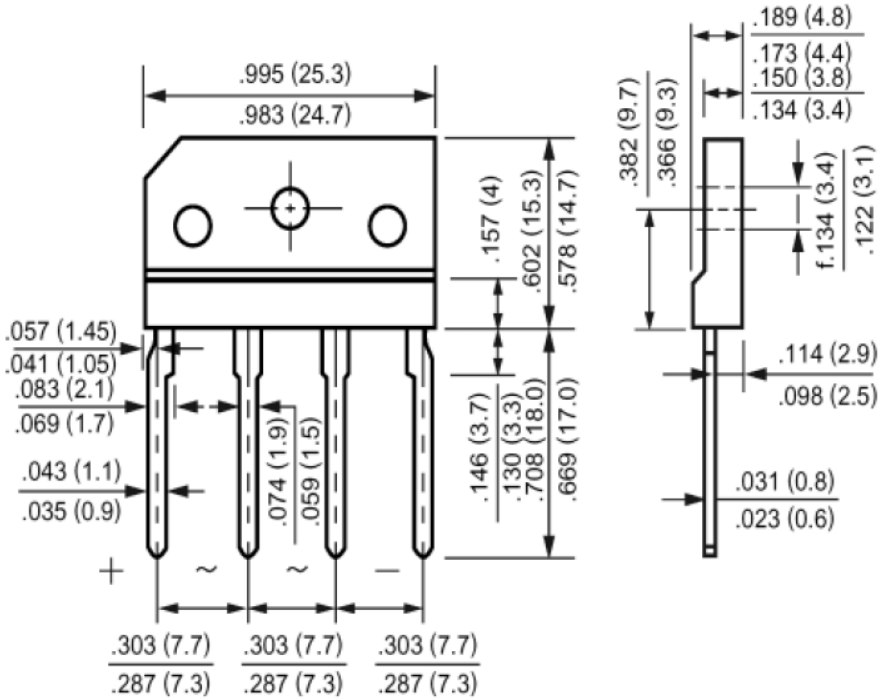
Features:

- **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: Any**
- **Weight: 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

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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	I_O	10.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150							A

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							μA

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)	$R_{\theta JC}$	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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FIG1: Io-Tc Curve

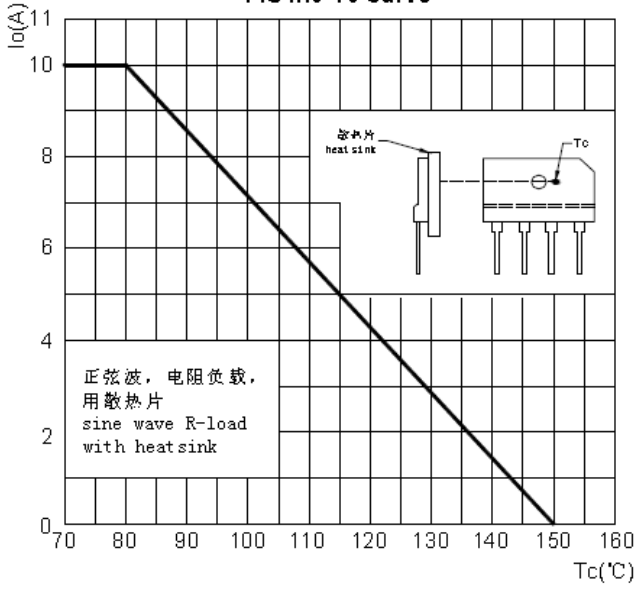


FIG2: Surge Forward Current Capability

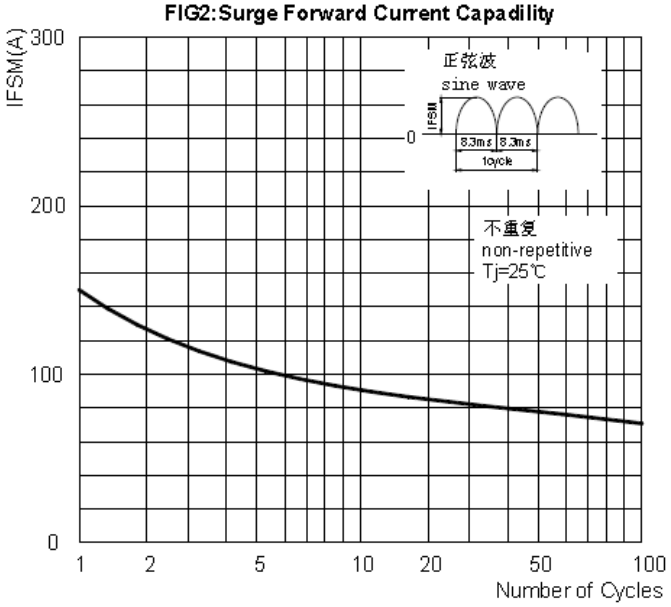


FIG3: Forward Voltage

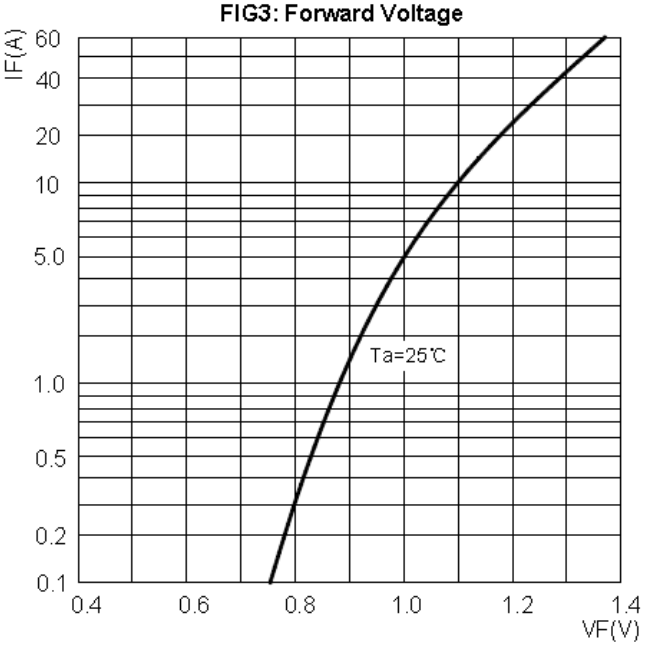
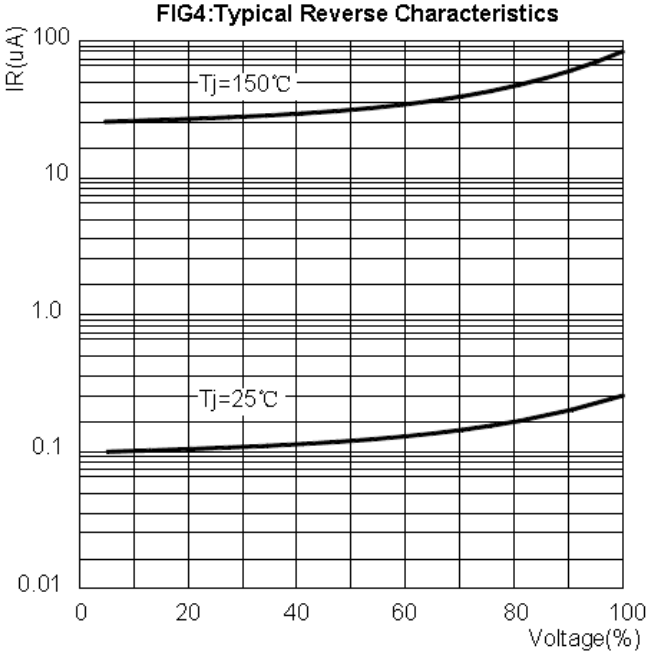


FIG4: Typical Reverse Characteristics



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