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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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# SJPB-L6

Apr. 2009

Schottky Barrier Rectifier

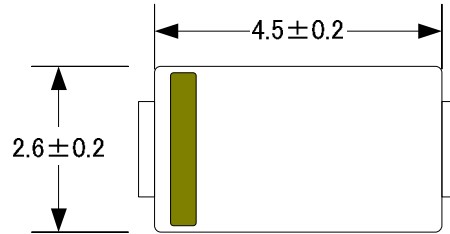
### General Description

SJPB-H6 is a Schottky Barrier Diode, and has achieved low leakage current and low VF by selecting the best barrier metal.

### Applications

- DC-DC converters
- AC adapter
- High frequency rectification circuit

### Package



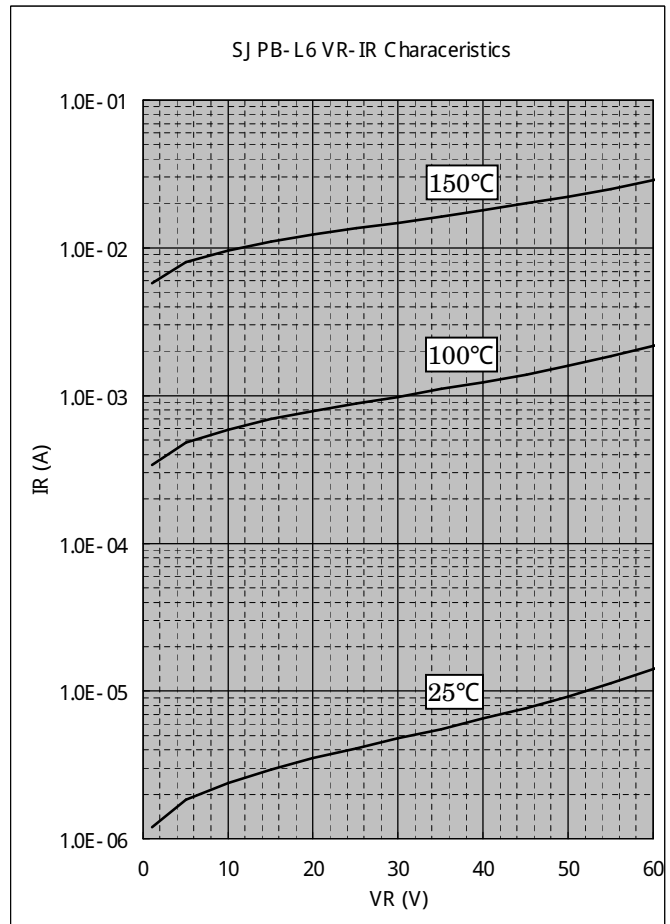
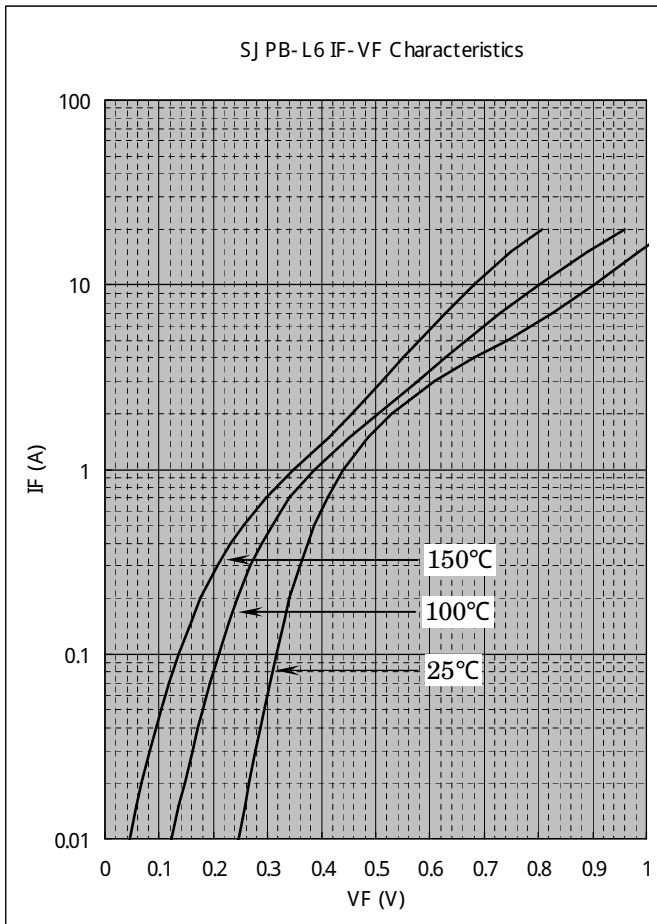
### Features

- Super-high speed & low noise switching.
- Low forward voltage drop.

### Key Specifications

Item	Unit	Rating	Conditions
$V_{RM}$	V	60	
$V_F$	V	0.70	$I_F=3.0A$
$I_{F(AV)}$	A	3.0	

### Typical Characteristics



The information included herein is believed to be accurate and reliable. However, SANKEN ELECTRIC CO., LTD assumes no responsibility for its use ; nor for any infringements of patents or other rights of third parties that may result from its use.

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Schottky Barrier Rectifier

**\* Absolute maximum ratings**

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	$V_{RSM}$	V	60	
2	Peak Reverse Voltage	$V_{RM}$	V	60	
3	Average Forward Current	$I_{F(AV)}$	A	3.0	
4	Peak Surge Forward Current	$I_{FSM}$	A	50	Half sinewave, one shot
5	$I^2t$ Limiting Value	$I^2t$	A <sup>2</sup> s	8.0	1msec ≤ t ≤ 10msec
6	Junction Temperature	$T_j$	°C	-40 ~ +150	
7	Storage Temperature	$T_{stg}$	°C	-40 ~ +150	

**\* Electrical characteristics(Ta=25°C , unless otherwise specified)**

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	$V_F$	V	0.70 max.	$I_F=3.0A$
2	Reverse Leakage Current	$I_R$	uA	300 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	mA	70 max.	$V_R=V_{RM}, T_j=150^\circ C$
4	Thermal Resistance	$R_{th(j-l)}$	°C/W	20 max.	Between Junction and Lead

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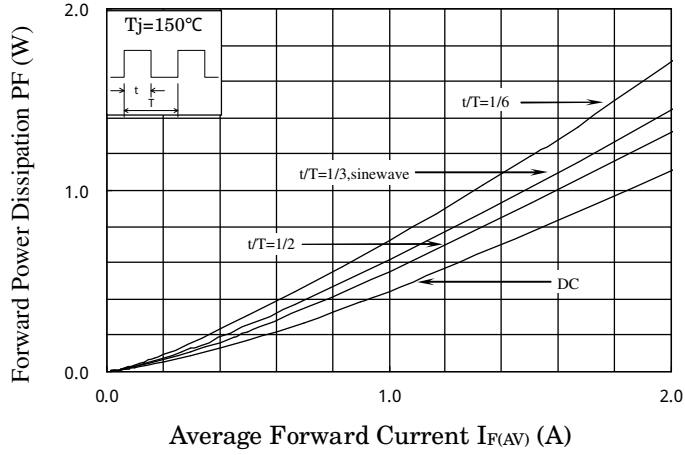
**SJPB-L6**

Schottky Barrier Rectifier

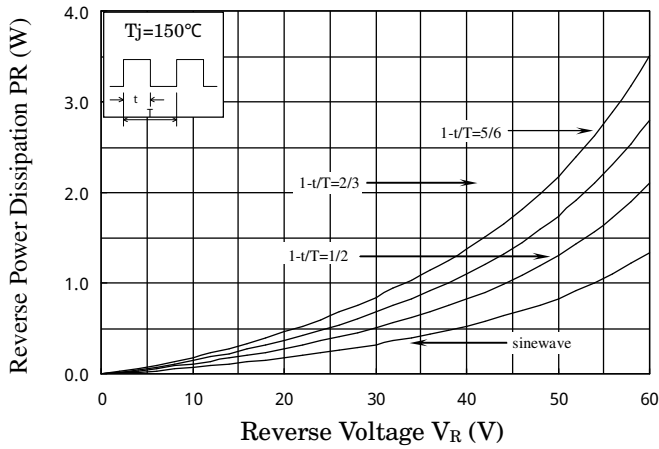
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**\* Characteristics**

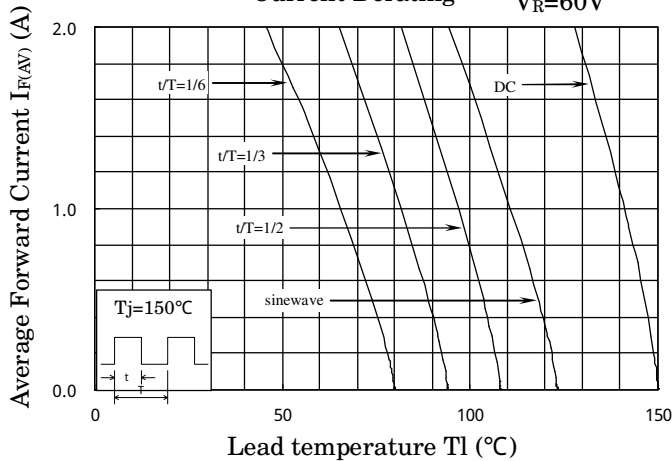
**Forward Power Dissipation**



**Reverse Power Dissipation**



**Current Derating  $V_R=60\text{V}$**

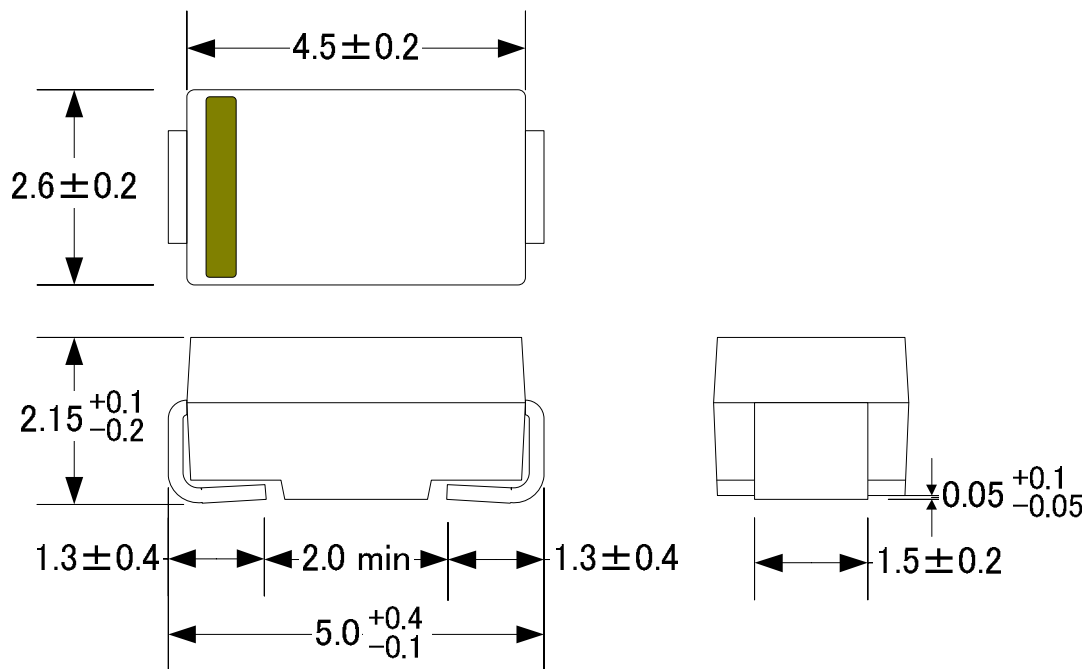


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Schottky Barrier Rectifier

**\* Outline drawings, mm**



**\* Connection Diagram**

