

SJPB-H4

Schottky Barrier Rectifier

Mar. 2008

General Description

SJPB-H4 is a Schottky Barrier Diode, and has achieved low leakage current and low VF by selecting the best barrier metal.

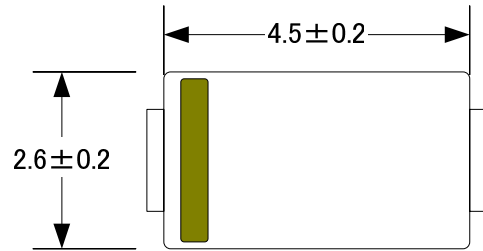
Applications

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

Features

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

Package

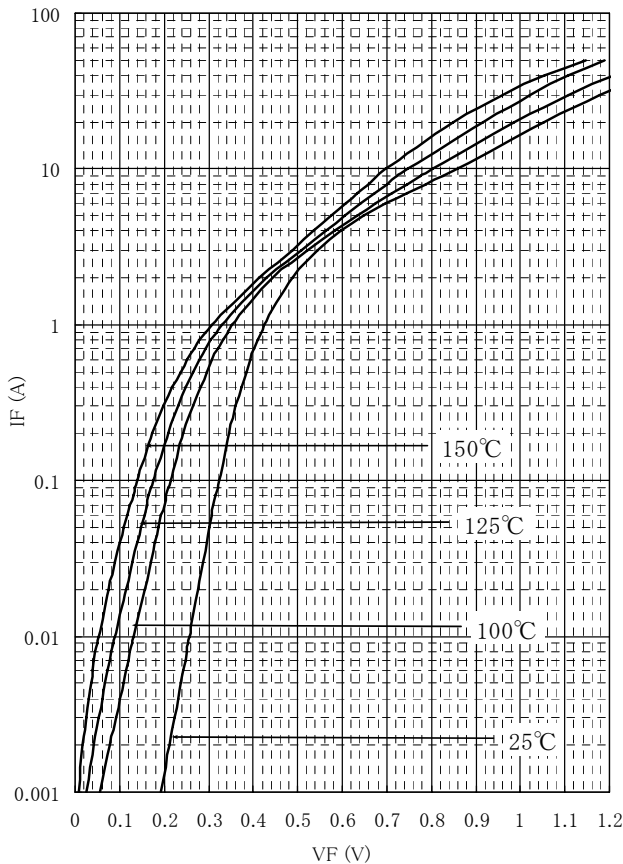


Key Specifications

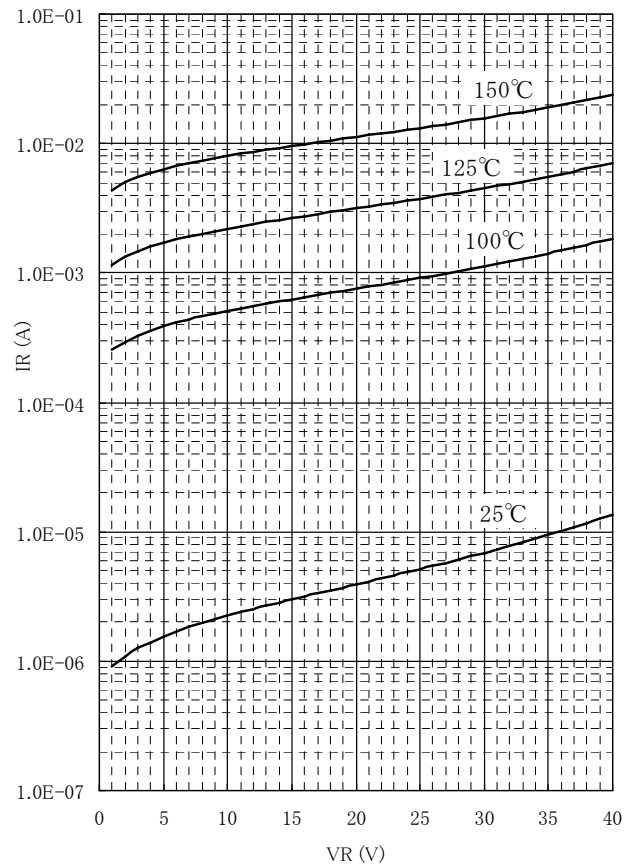
Symbol	Unit	Rating	Conditions
V_{RM}	V	40	
V_F	V	0.55	$I_F=2.0A$
$I_{F(AV)}$	A	2.0	

Typical Characteristics

SJPB-H4 I_F - V_F Characteristics



SJPB-H4 V_R - I_R 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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★ Absolute maximum ratings

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	40	
2	Peak Reverse Voltage	V_{RM}	V	40	
3	Average Forward Current	$I_{F(AV)}$	A	2.0	
4	Peak Surge Forward Current	I_{FSM}	A	50	Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	12.5	$1msec < t < 10msec$
6	Junction Temperature	T_j	$^{\circ}C$	-40 to +150	
7	Storage Temperature	T_{stg}	$^{\circ}C$	-40 to +150	

★ Electrical characteristics($T_a=25^{\circ}C$, unless otherwise specified)

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Forward Voltage Drop	V_F	V	0.55 max.	$I_F=2.0A$
2	Reverse Leakage Current	I_R	μA	200 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	$R_{th(j-c)}$	$^{\circ}C/W$	20 max.	Between Junction and Lead

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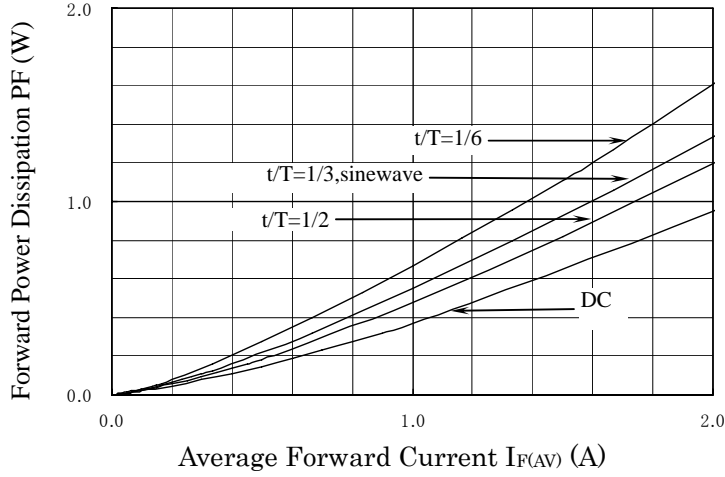
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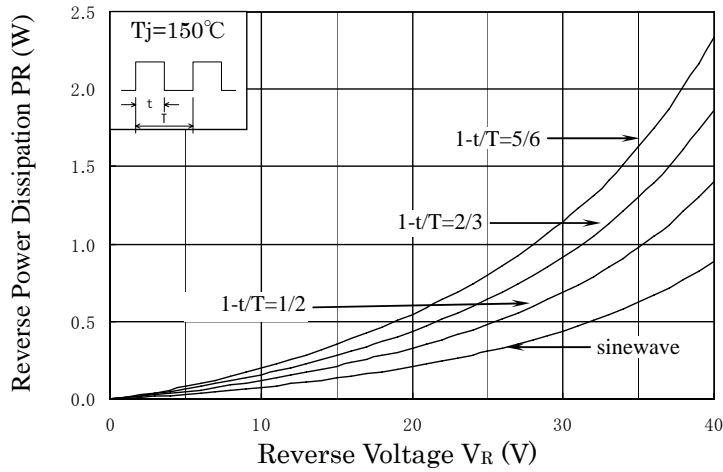
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★ Characteristics

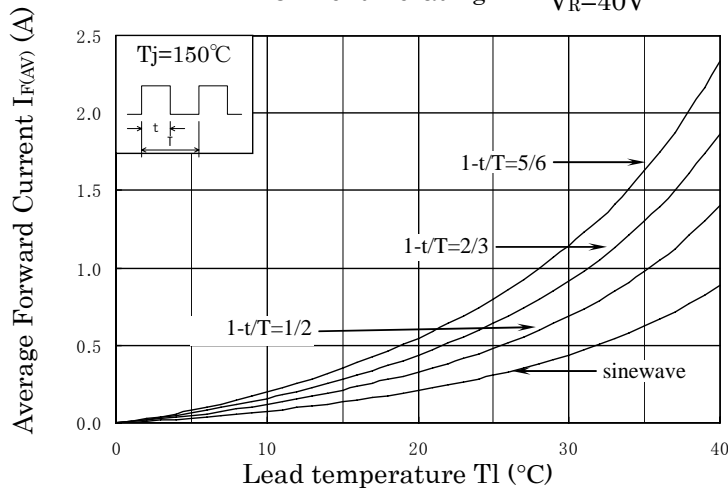
Forward Power Dissipation



Reverse Power Dissipation



Current Derating $V_R = 40\text{V}$

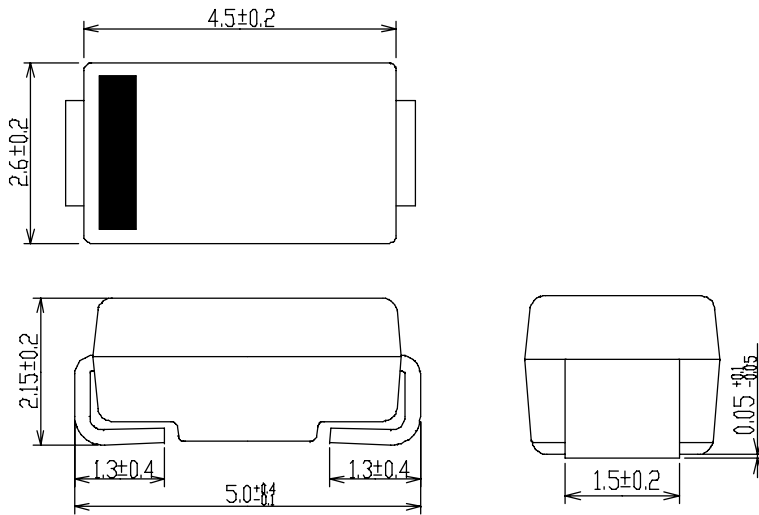


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★ Outline drawings, mm



★ Connection Diagram

