SANKEN ELECTRIC

SJPB-H9

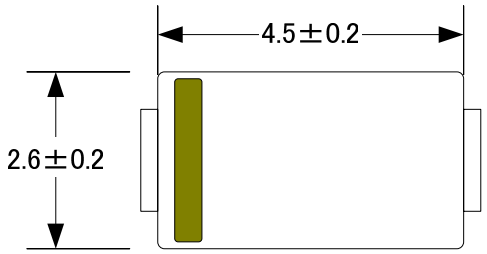
Schottky Barrier Rectifier

Mar. 2008

General Description

SJPB-H9 is a Schottky Barrier Diode, and has achieved low leakage current and low VF by selecting the best barrier metal.

Package



Applications

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

Features

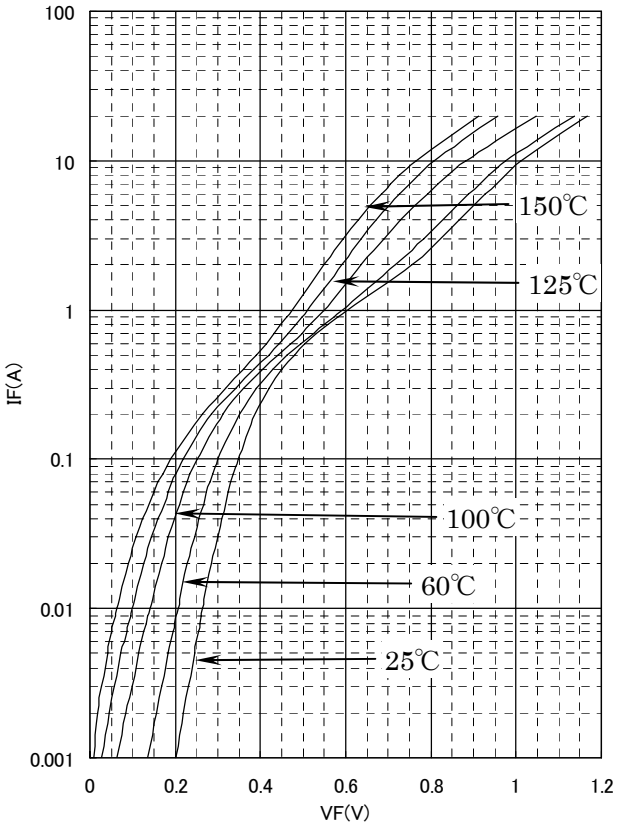
- Super-high speed & low noise switching.
- Low forward voltage drop.

Key Specifications

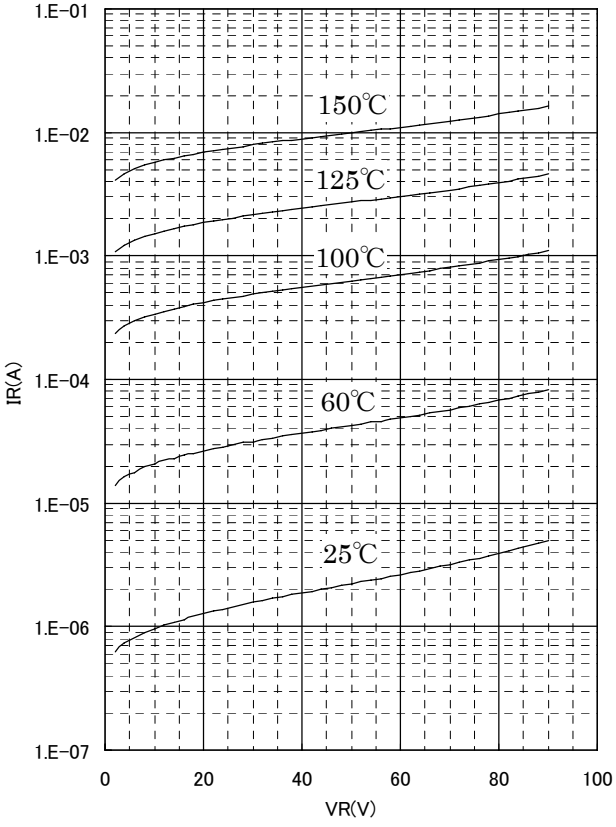
Symbol	Unit	Rating	Conditions
V_{RM}	V	90	
V_F	V	0.85	I_F=2.0A
$I_{F(AV)}$	A	2.0	

Typical Characteristics

SJPB-H9 IF-VF Characteristics



SJPB-H9 VR-IR Characteristics



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✶ **Absolute maximum ratings**

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	90	
2	Peak Reverse Voltage	V_{RM}	V	90	
3	Average Forward Current	$I_{F(AV)}$	A	2.0	
4	Peak Surge Forward Current	I_{FSM}	A	40	Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	8.0	1msec<t<10msec
6	Junction Temperature	T_j	°C	-40 to +150	
7	Storage Temperature	T_{stg}	°C	-40 to +150	

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

No.	Parameter	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	0.85 max.	I_F=2.0A
2	Reverse Leakage Current	I_R	uA	200 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	H•I_R	mA	55 max.	$V_R=V_{RM}$, T_j=150°C
4	Thermal Resistance	$R_{th(j-l)}$	°C/W	20 max.	Between Junction and Lead

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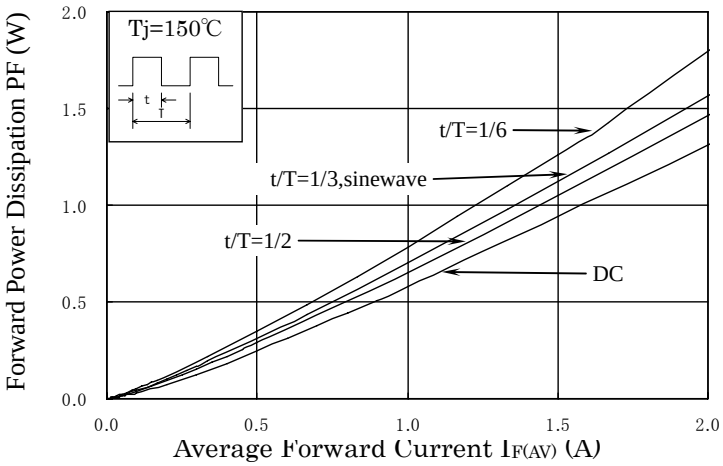
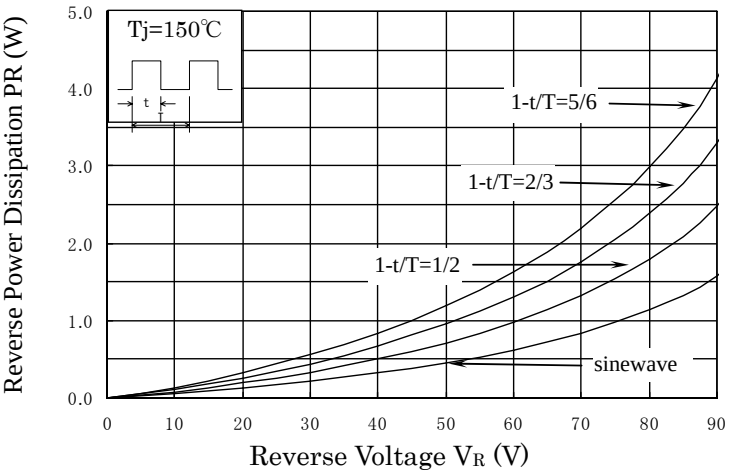
✶ **Characteristics**

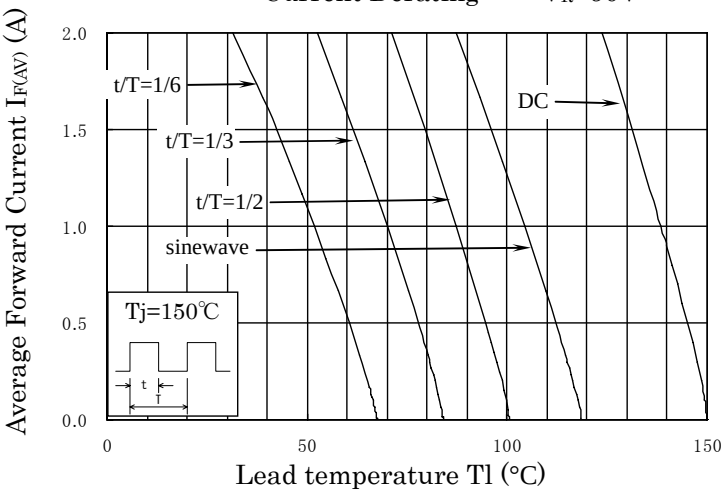
Forward Power Dissipation



Reverse Power Dissipation



Current Derating VR=90V



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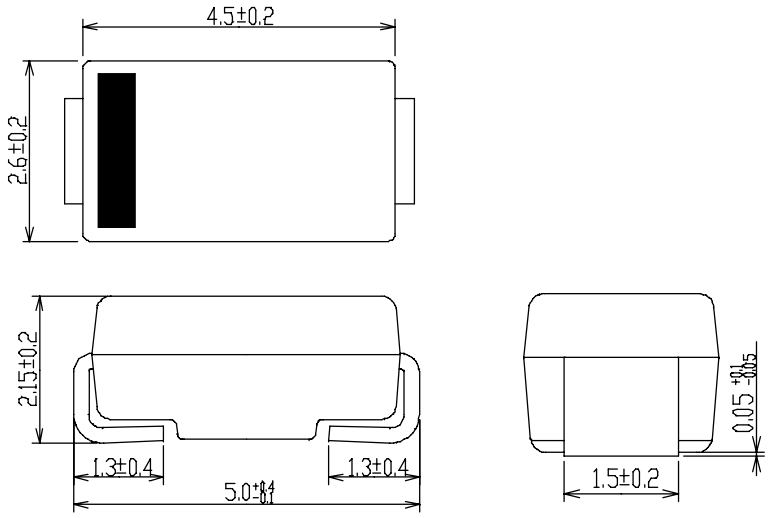
✶ **Outline drawings, mm**



✶ **Connection Diagram**