

**SJPB-L4**

Schottky Barrier Rectifier

Mar. 2008

**General Description**

SJPB-L4 is a Schottky Barrier Diode, and has achieved low leakage current and low VF by selecting the best barrier metal.

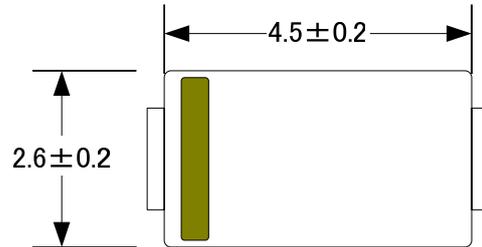
**Applications**

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

**Features**

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

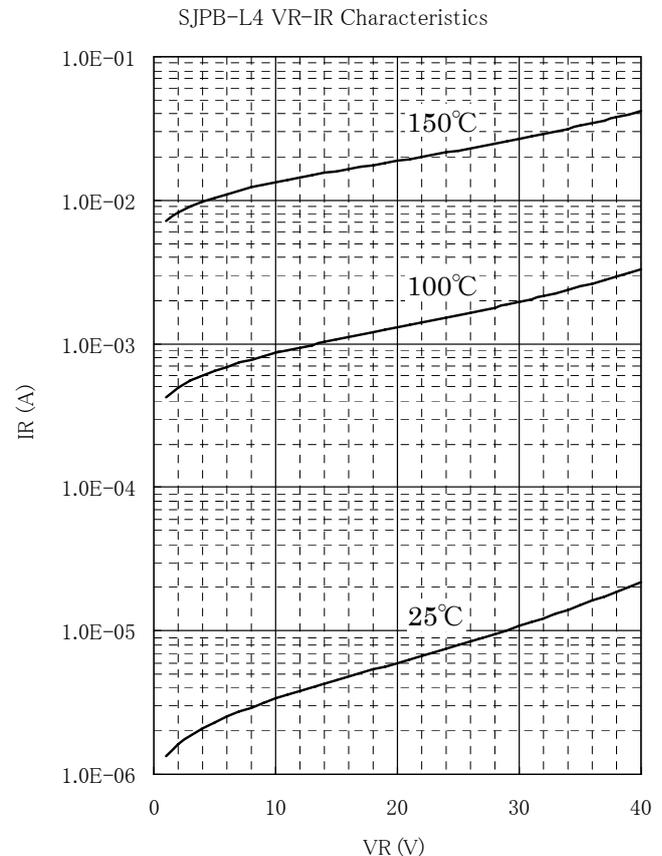
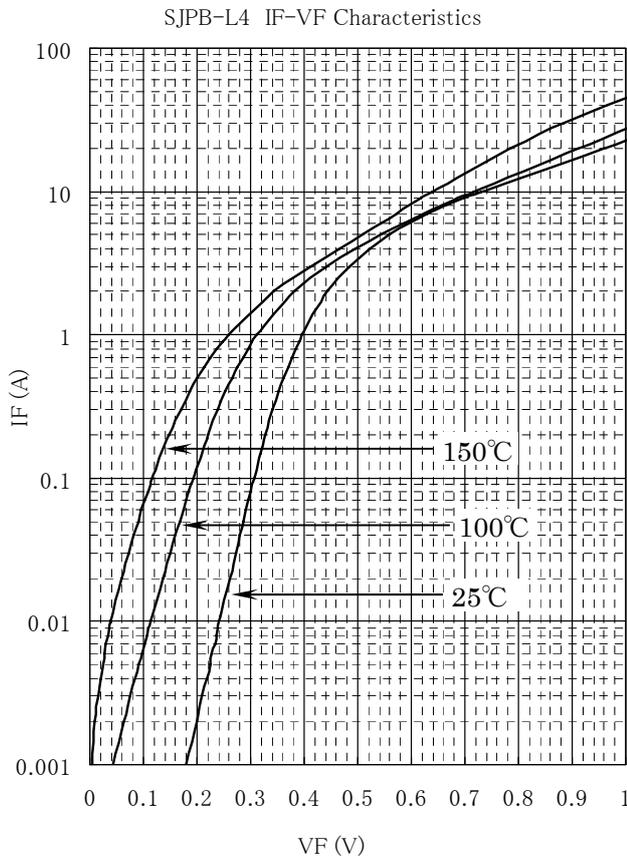
**Package**



**Key Specifications**

Symbol	Unit	Rating	Conditions
$V_{RM}$	V	40	
$V_F$	V	0.55	$I_F=3.0A$
$I_{F(AV)}$	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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### ★ 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	3.0	
4	Peak Surge Forward Current	$I_{FSM}$	A	60	Half sinewave, one shot
5	$I^2t$ Limiting Value	$I^2t$	$A^2s$	18	$1msec < t < 10msec$
6	Junction Temperature	$T_j$	$^{\circ}C$	-40 to +150	
7	Storage Temperature	$T_{stg}$	$^{\circ}C$	-40 to +150	

### ★ Electrical characteristics (Ta=25°C, unless otherwise specified)

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Forward Voltage Drop	$V_F$	V	0.55 max.	$I_F=3.0A$
2	Reverse Leakage Current	$I_R$	$\mu A$	300 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	mA	100 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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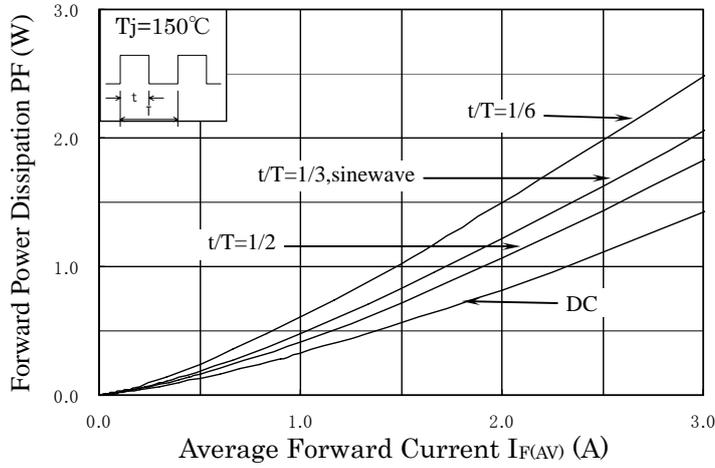
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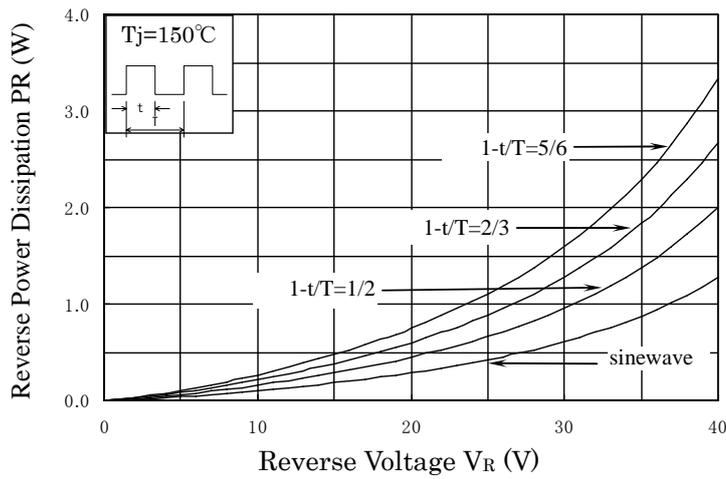
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★ Characteristics

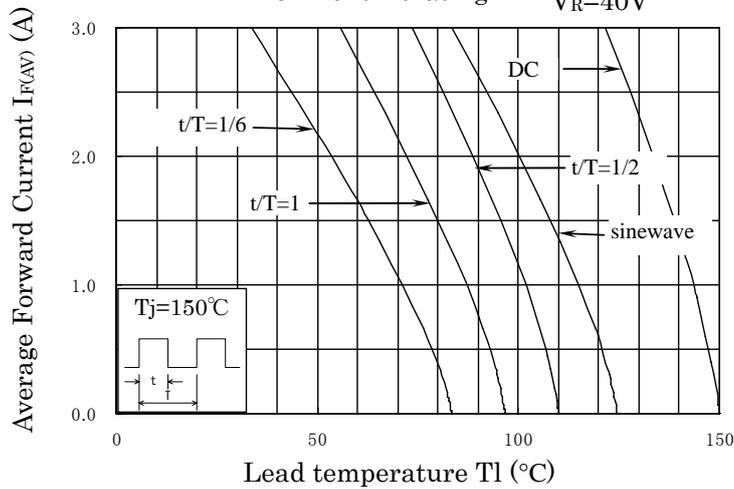
Forward Power Dissipation



Reverse Power Dissipation



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

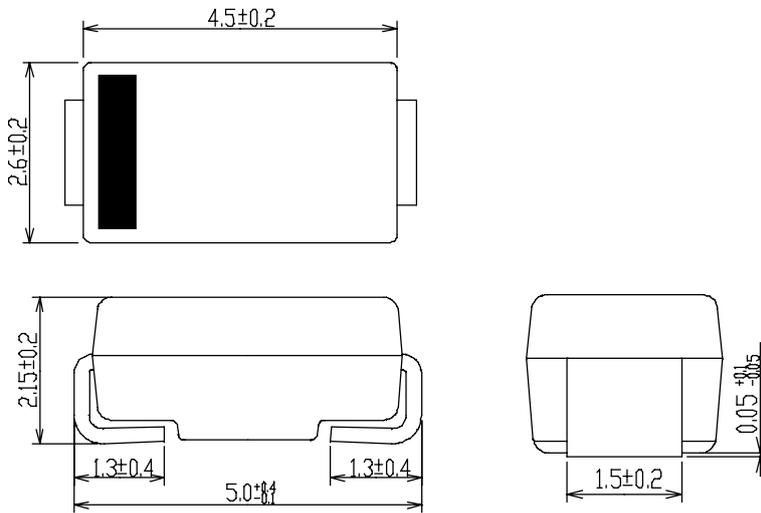


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★ Outline drawings, mm



★ Connection Diagram

