

SJPL-L2

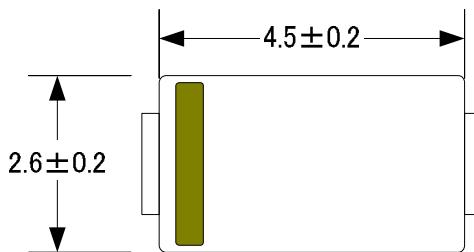
Fast Recovery Diode

Jan. 2011

General Description

A surface mount device added to 200V_L series.
Realizes better space-saving in mounting on a printed circuit board by using a surface mount package.

Package



Applications

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

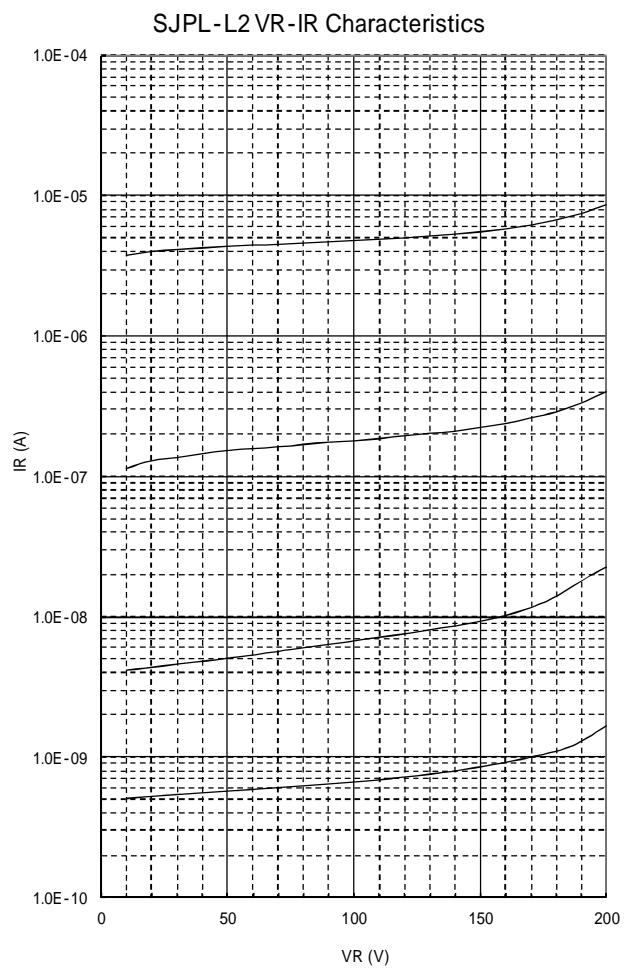
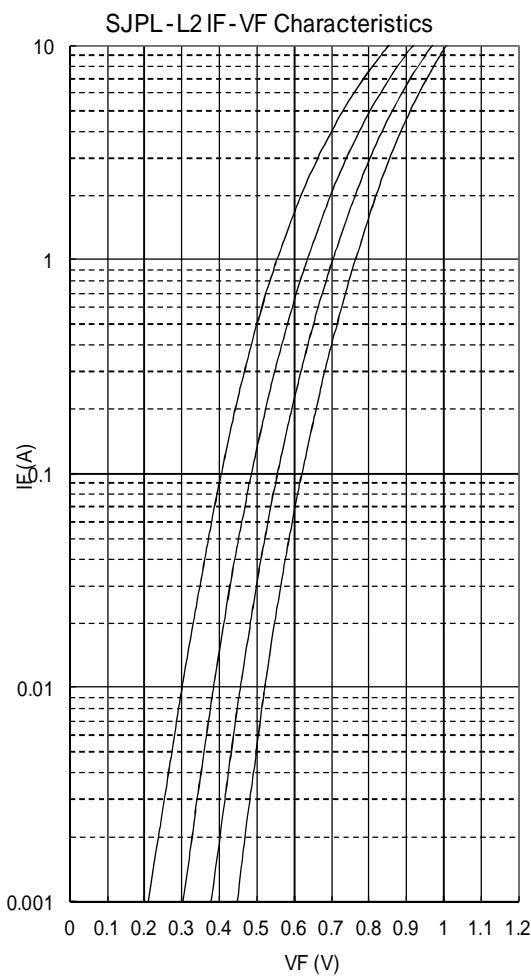
Key Specifications

Features

- Super-high speed Fast Recovery Diode
- Steady operation is possible even at the high temperature by the low leakage current.

Item	Unit	Rating	Conditions
V_{RM}	V	200	
V_F	V	0.98	$I_F=3.0A$
$I_{F(AV)}$	A	3.0	
t_{rr}	ns	35	100mA/200mA

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.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	200	
2	Peak Reverse Voltage	V_{RM}	V	200	
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	$1\text{msec} \leq t \leq 10\text{msec}$
6	Junction Temperature	T_j	$^{\circ}\text{C}$	-40 ~ +150	
7	Storage Temperature	T_{stg}	$^{\circ}\text{C}$	-40 ~ +150	

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

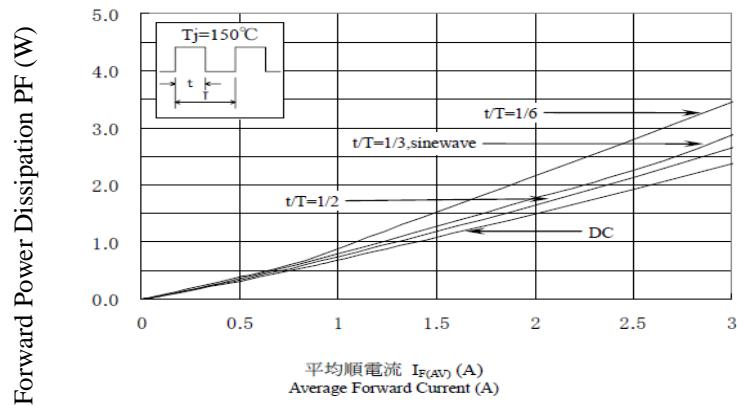
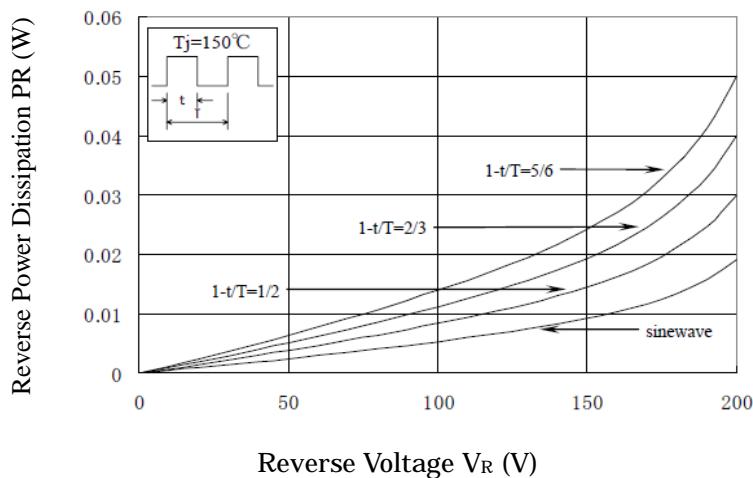
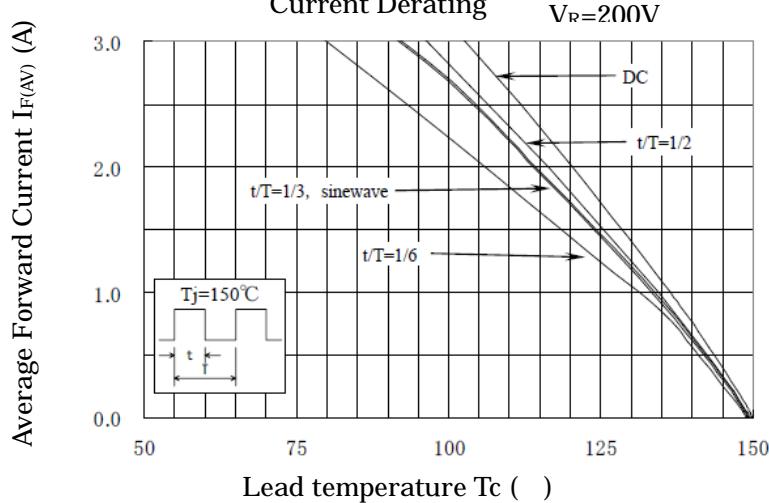
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	0.98 max.	$I_F=3.0\text{A}$
2	Reverse Leakage Current	I_R	μA	50 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H-I_R$	mA	300 max.	$V_R=V_{RM}$, $T_j=150^{\circ}\text{C}$
4	Reverse Recovery Time	t_{rr1}	ns	50 max.	$I_F=I_{RP}=100\text{mA}$ 90% Recovery point, $T_j=25^{\circ}\text{C}$
		t_{rr2}	ns	35 max.	$I_F=100\text{mA}$, $I_{RP}=200\text{mA}$ 75% Recovery point, $T_j=25^{\circ}\text{C}$
5	Thermal Resistance	$R_{th(j-c)}$	$^{\circ}\text{C}/\text{W}$	20 max.	Between Junction and Lead

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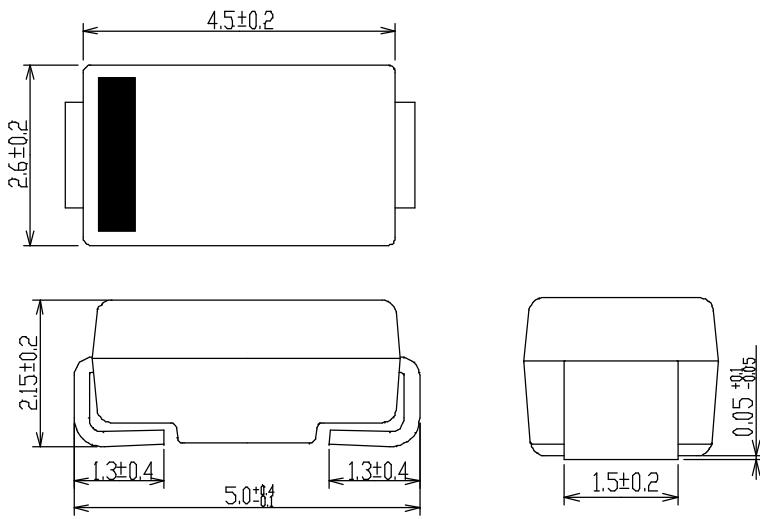
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*** Characteristics****Forward Power Dissipation**Average Forward Current $I_{F(AV)}$ (A)**Reverse Power Dissipation**Reverse Voltage V_R (V)**Current Derating** $V_R=200\text{V}$ 

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*** Outline drawings, mm***** Connection Diagram**