

**SJPL-L2**

May. 2016

Fast Recovery Diode

**General Description**

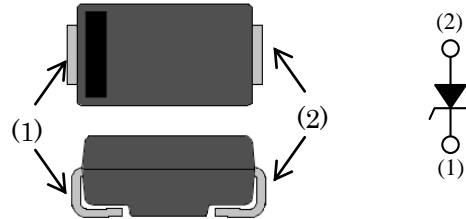
A surface mount device added to 200V\_L series.  
Realizes better space-saving in mounting on a printed circuit board by using a surface mount package.

**Applications**

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

**Package**

SJP



(1) Cathode

(2) Anode

Not to Scale

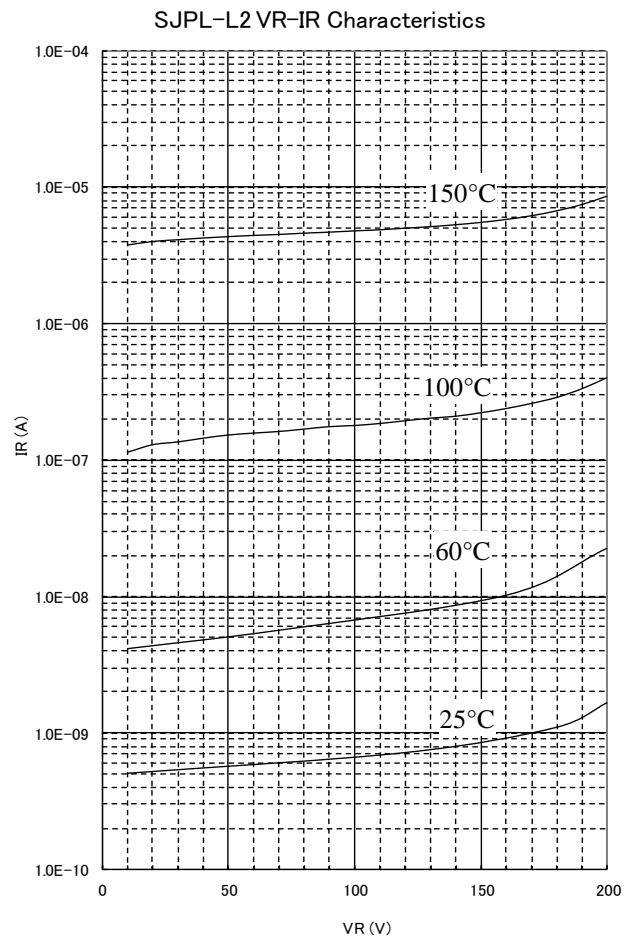
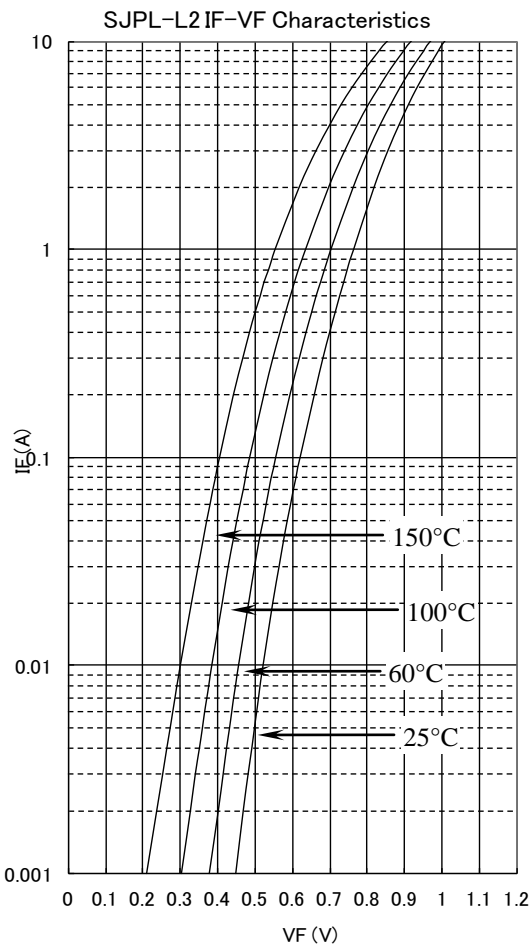
**Features**

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

**Key Specifications**

Item	Rating	Unit	Conditions
$V_{RM}$	200	V	
$V_F$	0.98	V	$I_F=3.0A$
$I_{F(AV)}$	3.0	A	
$t_{rr}$	35	ns	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 sine-wave, one shot
5	$I^2t$ Limiting Value	$I^2t$	$A^2s$	18	$1ms \leq t \leq 10ms$
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.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	$V_F$	V	0.98 max.	$I_F=3.0A$
2	Reverse Leakage Current	$I_R$	$\mu A$	50 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	mA	300 max.	$V_R=V_{RM}, T_j=150^{\circ}C$
4	Reverse Recovery Time	$t_{r1}$	ns	50 max.	$I_F=I_{RP}=100mA$ 90% Recovery point, $T_j=25^{\circ}C$
		$t_{r2}$	ns	35 max.	$I_F=100mA, I_{RP}=200mA$ 75% Recovery point, $T_j=25^{\circ}C$
5	Thermal Resistance	$R_{th(j-c)}$	$^{\circ}C/W$	20 max.	Between Junction and Lead

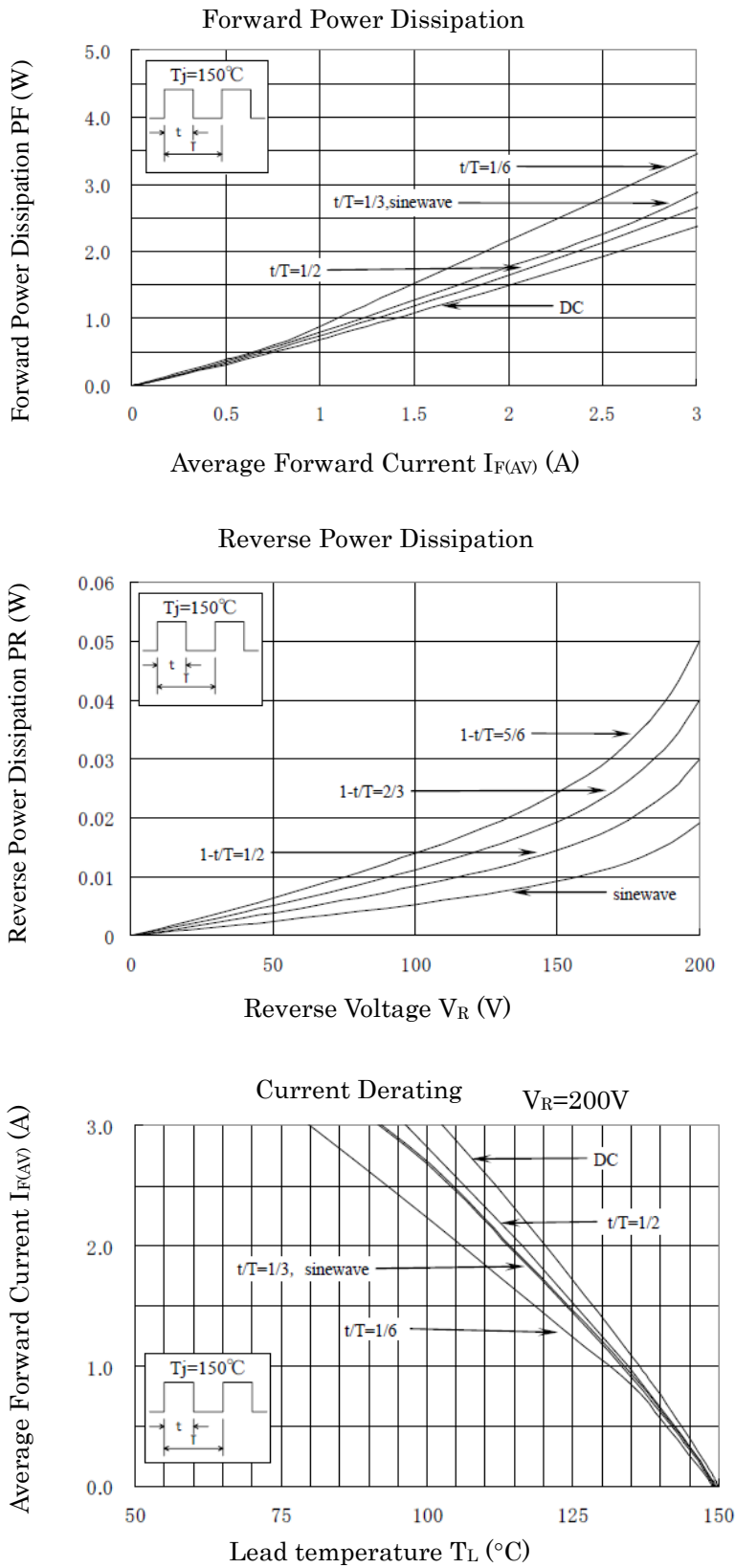
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**Characteristics**



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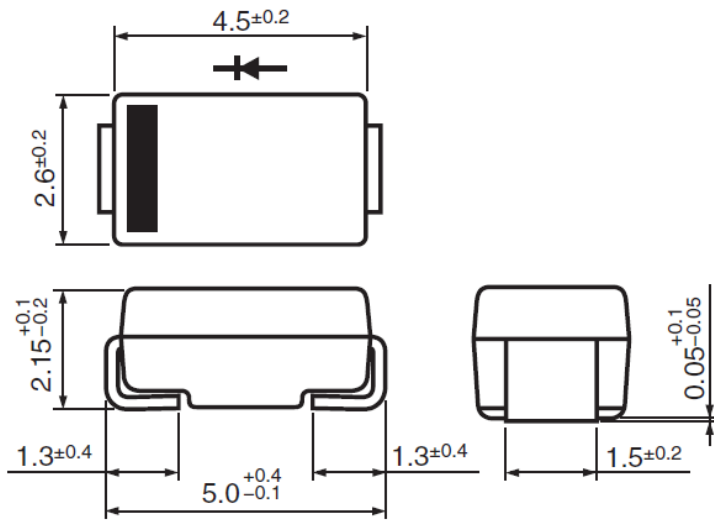
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### Outline drawings

- SJP



### NOTES:

- Dimension is in millimeters.
- Lead treatment Pb-free. Device composition compliant with the RoHS directive.

### Connection Diagram



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