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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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SJPJ-D3

Schottky Barrier Rectifier

### **General Description**

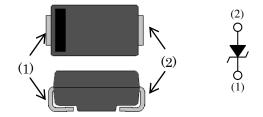
SJPJ-D3 is a Schottky Barrier Diode, and has achieved low leakage current and low VF by selecting the best barrier metal.

### **Applications**

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

### **Package**

SJP



- (1) Cathode
- (2) Anode

May. 2016

Not to Scale

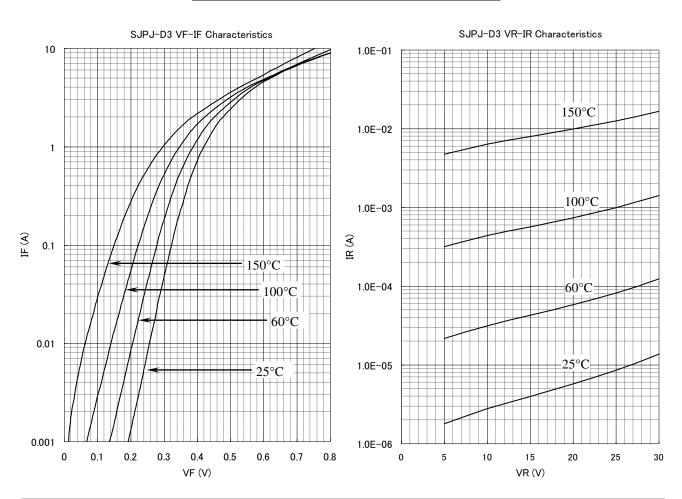
# **Key Specifications**

Item	Rating	Unit	Conditions
$V_{RM}$	30	V	
$V_{\mathrm{F}}$	0.45	V	$I_F=1.0A$
$I_{F(AV)}$	1.0	A	

### **Features**

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

# **Typical Characteristics**



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# **Absolute maximum ratings**

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V <sub>RSM</sub>	V	30	
2	Peak Reverse Voltage	$V_{RM}$	V	30	
3	Average Forward Current	$I_{F(AV)}$	A	1.0	
4	Peak Surge Forward Current	$I_{FSM}$	A	30	Half sine-wave, one shot
5	I <sup>2</sup> t Limiting Value	$I^2t$	$A^2s$	4.5	$1\text{ms} \le t \le 10\text{ms}$
6	Junction Temperature	$T_{\rm j}$	°C	-40 to 150	
7	Storage Temperature	$T_{ m stg}$	°C	-40 to 150	

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

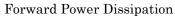
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	$V_{\rm F}$	V	0.45 max.	I <sub>F</sub> =1.0A
2	Reverse Leakage Current	$I_R$	μΑ	100 max.	$V_R = V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	mA	35 max.	V <sub>R</sub> =V <sub>RM</sub> , T <sub>j</sub> =150°C
4	Thermal Resistance	$R_{\text{th(j-l)}}$	°C/W	20 max.	Between Junction and Lead

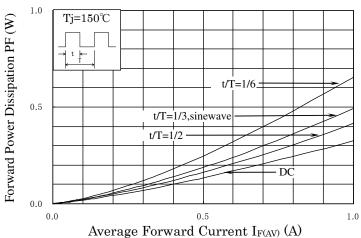
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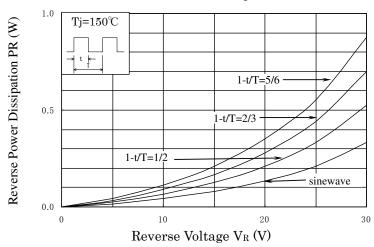
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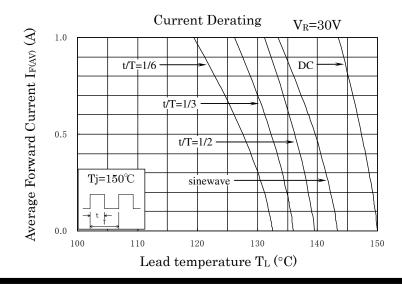
### **Characteristics**





## Reverse Power Dissipation





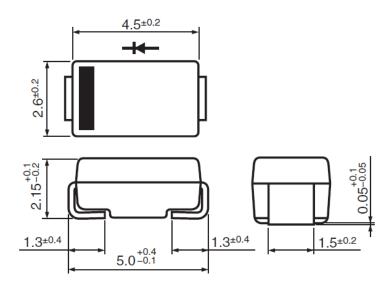


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# **Outline drawings**

• SJP



## NOTES:

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

# **Connection Diagram**



**SJPJ**-D3 May. 2016

Schottky Barrier Rectifier

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