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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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SJPJ-L3

Schottky Barrier Rectifier

General Description

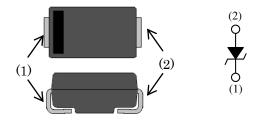
SJPJ-L3 is a Schottky Barrier Diode, and has achieved low leakage current and low VF by selecting the best barrier metal.

Applications

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

Package

SJP



- (1) Cathode
- (2) Anode

May. 2016

Not to Scale

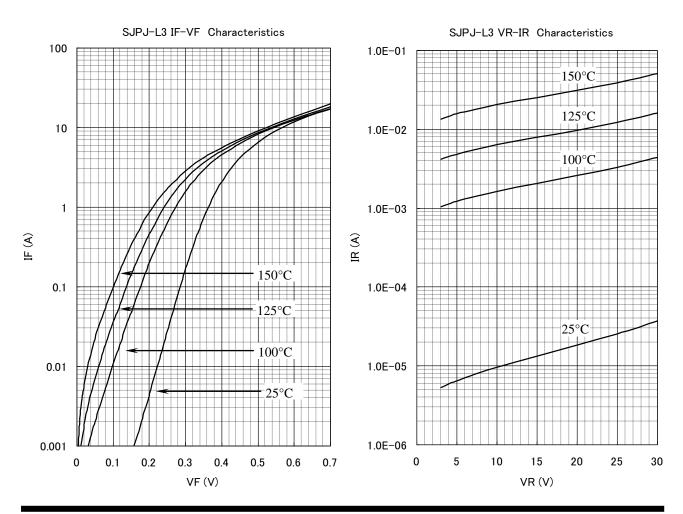
Key Specifications

| Item | Rating | Unit | Conditions |
|------------------|--------|------|------------|
| V_{RM} | 30 | V | |
| V_{F} | 0.45 | V | $I_F=3.0A$ |
| $I_{F(AV)}$ | 3.0 | A | |

Typical Characteristics

Features

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



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Schottky Barrier Rectifier

Absolute maximum ratings

| No. | Item | Symbol | Unit | Rating | Conditions |
|-----|---------------------------------|------------------|--------|------------|--------------------------------------|
| 1 | Transient Peak Reverse Voltage | V _{RSM} | V | 30 | |
| 2 | Peak Reverse Voltage | V_{RM} | V | 30 | |
| 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 ² t Limiting Value | I^2t | A^2s | 18 | $1 \text{ms} \le t \le 10 \text{ms}$ |
| 6 | Junction Temperature | $T_{\rm j}$ | °C | -40 to 150 | |
| 7 | Storage Temperature | T_{stg} | °C | -40 to 150 | |

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

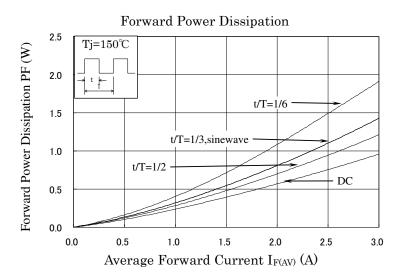
| No. | Item | Symbol | Unit | Value | Conditions |
|-----|---|----------------------|------|-----------|---|
| 1 | Forward Voltage Drop | V_{F} | V | 0.45 max. | I _F =3.0A |
| 2 | Reverse Leakage Current | I_R | μΑ | 300 max. | $V_R = V_{RM}$ |
| 3 | Reverse Leakage Current Under High Temperature | $H \cdot I_R$ | mA | 150 max. | V _R =V _{RM} , T _j =150°C |
| 4 | Thermal Resistance | $R_{\text{th(j-c)}}$ | °C/W | 20 max. | Between Junction and Lead |

SJPJ-L3

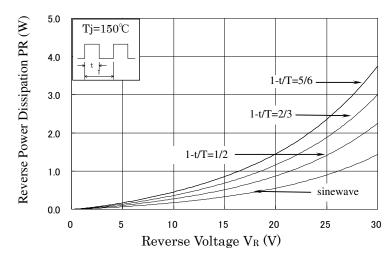
Schottky Barrier Rectifier

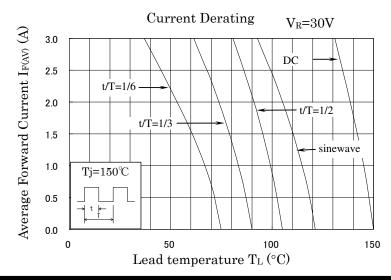
May. 2016

Characteristics



Reverse Power Dissipation







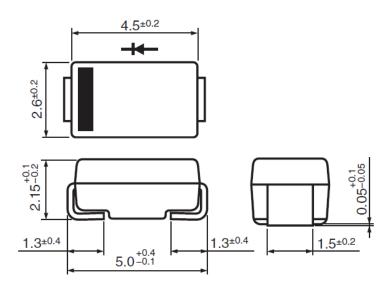
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Outline drawings

• SJP



NOTES:

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

Connection Diagram



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Schottky Barrier Rectifier

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