SJPB-D6
Schottky Barrier Rectifier

May. 2016

General Description

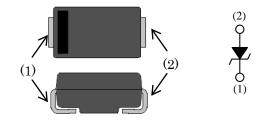
SJPB-D6 is a Schottky Barrier Diode, and has achieved low leakage current and low VF by selecting the best barrier metal.

Applications

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

Package

SJP



- (1) Cathode
- (2) Anode

Not to Scale

Key Specifications

Item	Rating	Unit	Conditions
V_{RM}	60	V	
V_{F}	0.68	V	$I_F=1.0A$
$I_{F(AV)}$	1.0	A	

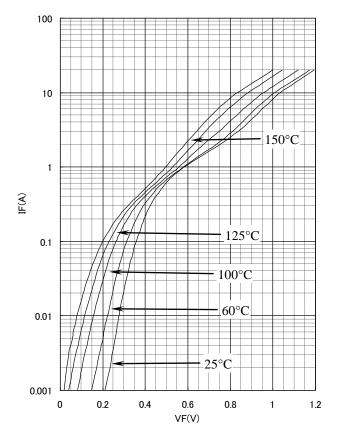
Features

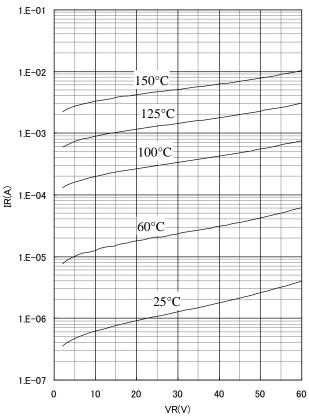
- ·Super-high speed & low noise switching.
- ·Low forward voltage drop.

Typical Characteristics

SJPB-D6 IF-VF Characteristics

SJPB-D6 VR-IR Characteristics







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Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	60	
2	Peak Reverse Voltage	V_{RM}	V	60	
3	Average Forward Current	I _{F(AV)}	A	1.0	
4	Peak Surge Forward Current	I_{FSM}	A	20	Half sine-wave, one shot
5	I ² t Limiting Value	I^2t	A^2s	2.0	$1 \text{ms} \le t \le 10 \text{ms}$
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)

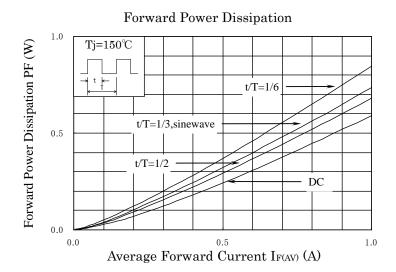
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_{F}	V	0.68 max.	I _F =1.0A
2	Reverse Leakage Current	I_R	μΑ	100 max.	$V_R = V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	mA	30 max.	V _R =V _{RM} , T _j =150°C
4	Thermal Resistance	$R_{th(j-l)}$	°C/W	20 max.	Between Junction and Lead

SJPB-D6

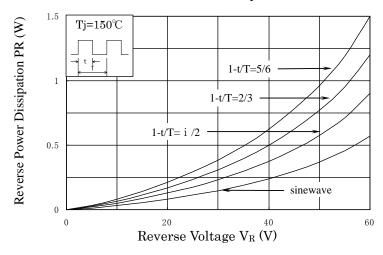
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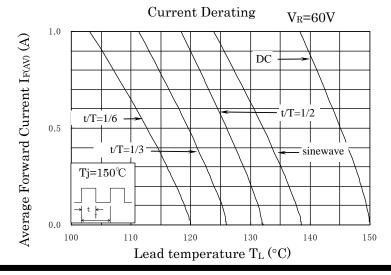
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Characteristics



Reverse Power Dissipation





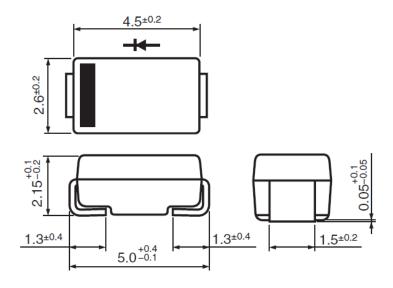


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Outline drawings

• SJP



NOTES:

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

Connection Diagram



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