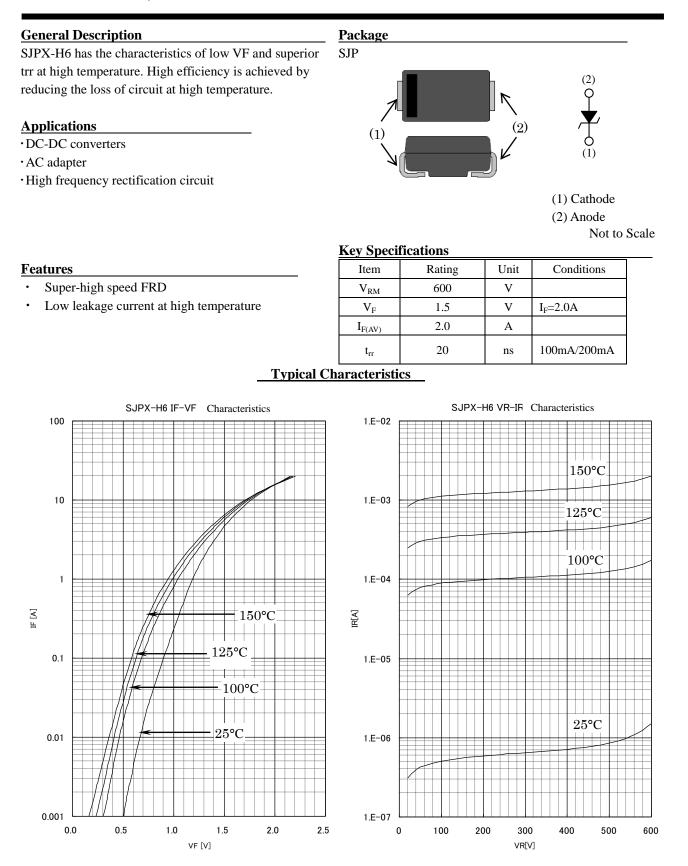
http://www.sanken-ele.co.jp

Sanken SANKEN ELECTRIC

SJPX-H6

Fast Recovery Diode

May. 2016



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Fast Recovery Diode

Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	$V_{\rm RSM}$	V	600	
2	Peak Reverse Voltage	V _{RM}	V	600	
3	Average Forward Current	I _{F(AV)}	А	2.0	
4	Peak Surge Forward Current	IFSM	А	20	Half sine-wave, one shot
5	I ² t Limiting Value	$I^2 t$	A^2s	2.0	$1 \text{ms} \le t \le 10 \text{ms}$
6	Junction Temperature	T_{j}	°C	-40 to 150	
7	Storage Temperature	$\mathrm{T}_{\mathrm{stg}}$	°C	-40 to 150	

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

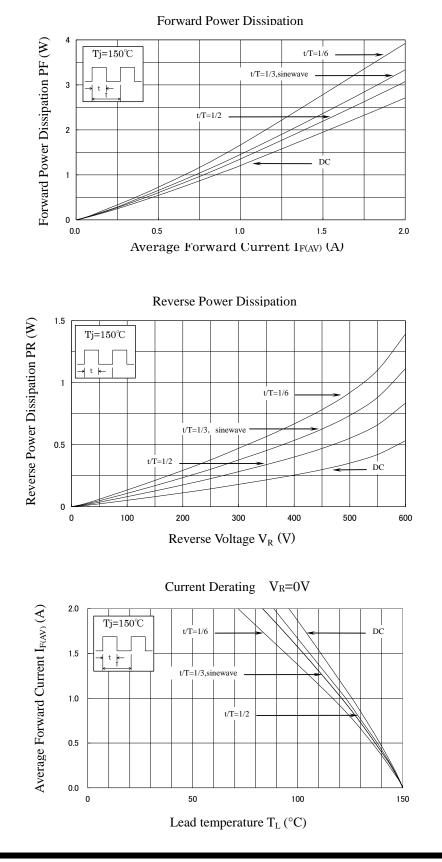
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	$V_{\rm F}$	V	1.5 max.	I _F =2.0A
2	Reverse Leakage Current	I _R	uA	10 max.	V _R =V _{RM}
3	Reverse Leakage Current Under High Temperature	H•I _R	mA	3.0 max.	$V_R = V_{RM}, T_j = 150^{\circ}C$
4	Reverse Recovery Time	t _{rr} 1	ns	30 max.	I _F =I _{RP} =100mA 90% Recovery point, T _j =25°C
		t _{rr} 2	ns	20 max.	$I_F=100$ mA, $I_{RP}=200$ mA 75% Recovery point, $T_j=25^{\circ}$ C
5	Thermal Resistance	$R_{th(j-c)}$	°C /W	20 max.	Between Junction and Lead

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May. 2016

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Characteristics



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Page3

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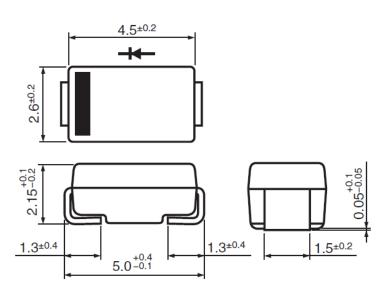
SJPX-H6

Fast Recovery Diode

May. 2016

External Dimensions





NOTES:

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

Connection Diagram



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Fast Recovery Diode

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