



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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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**SJPX-F2**

Fast Recovery Diode

May. 2016

**General Description**

SJPX-F2 has the characteristics of low VF and superior tr at high temperature. High efficiency is achieved by reducing the loss of circuit at high temperature.

**Applications**

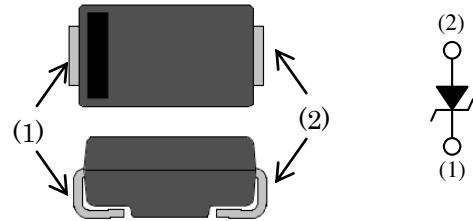
- DC-DC converters
- AC adapter
- High frequency rectification circuit

**Features**

- Low VF
- Fast switching
- Reduce the loss of circuit at high temperature

**Package**

SJP



(1) Cathode

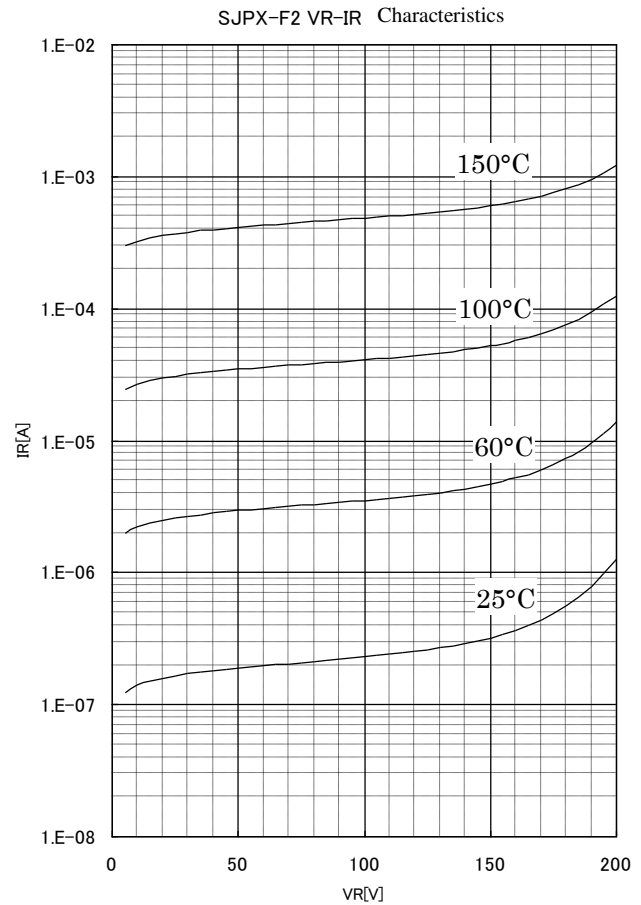
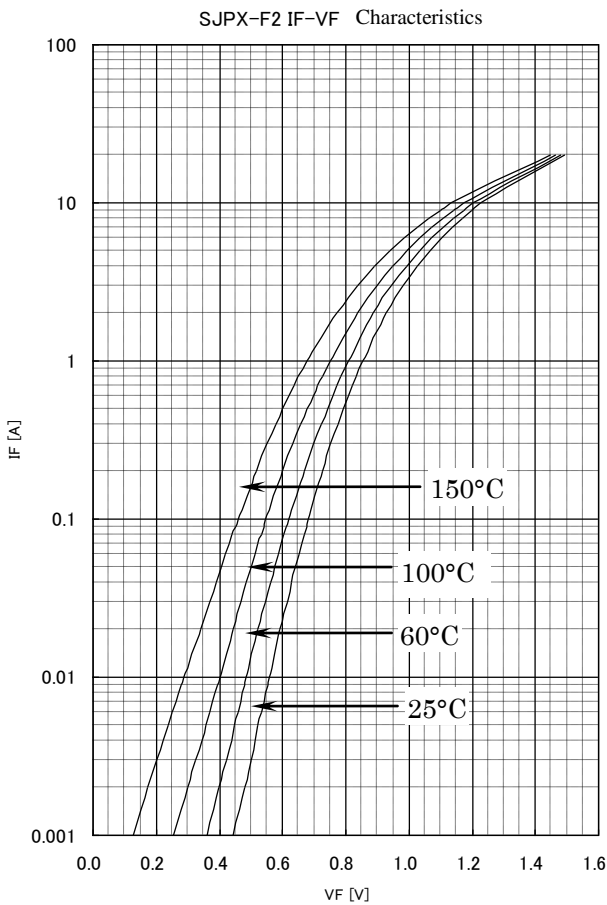
(2) Anode

Not to Scale

**Key Specifications**

Item	Rating	Unit	Conditions
$V_{RM}$	200	V	
$V_F$	0.98	V	$I_F=1.5A$
$I_{F(AV)}$	1.5	A	
$t_{rr}$	25	ns	100mA/200mA

**Typical Characteristics**



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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	1.5	
4	Peak Surge Forward Current	$I_{FSM}$	A	30	Half sine-wave, one shot
5	$I^2t$ Limiting Value	$I^2t$	$A^2s$	4.5	$1ms \leq t \leq 10ms$
6	Junction Temperature	$T_j$	$^{\circ}C$	-40 to 150	
7	Storage Temperature	$T_{stg}$	$^{\circ}C$	-40 to 150	

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

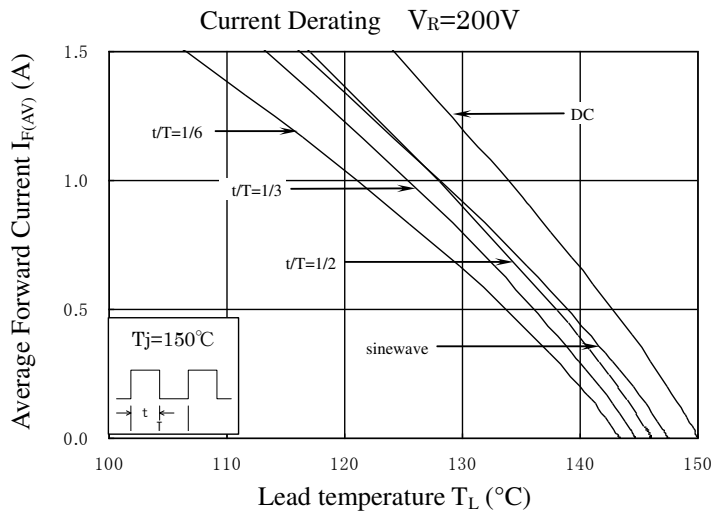
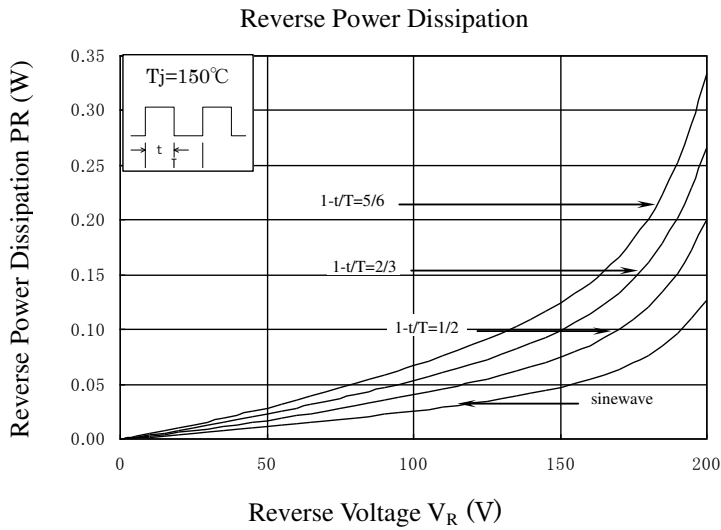
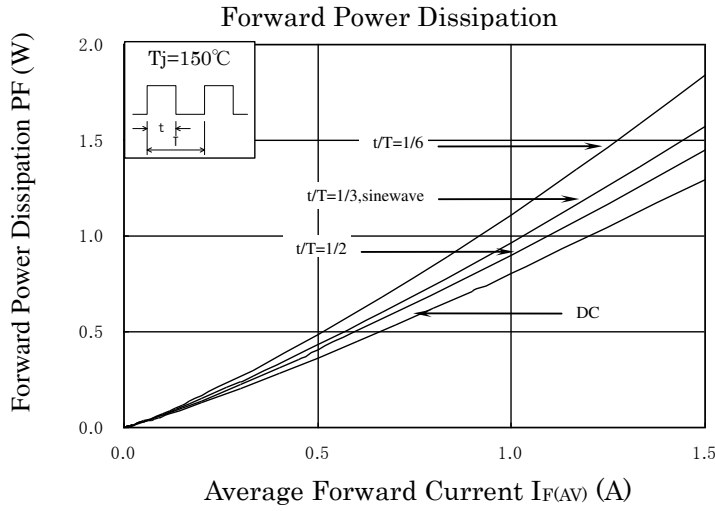
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	$V_F$	V	0.98 max.	$I_F=1.5A$
2	Reverse Leakage Current	$I_R$	$\mu A$	10 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	mA	2.0 max.	$V_R=V_{RM}, T_j=150^{\circ}C$
4	Reverse Recovery Time	$t_{rr1}$	ns	30 max.	$I_F=I_{RP}=100mA$ 90% Recovery point, $T_j=25^{\circ}C$
		$t_{rr2}$	ns	25 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

**SJPX-F2**

Fast Recovery Diode

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**Characteristics**



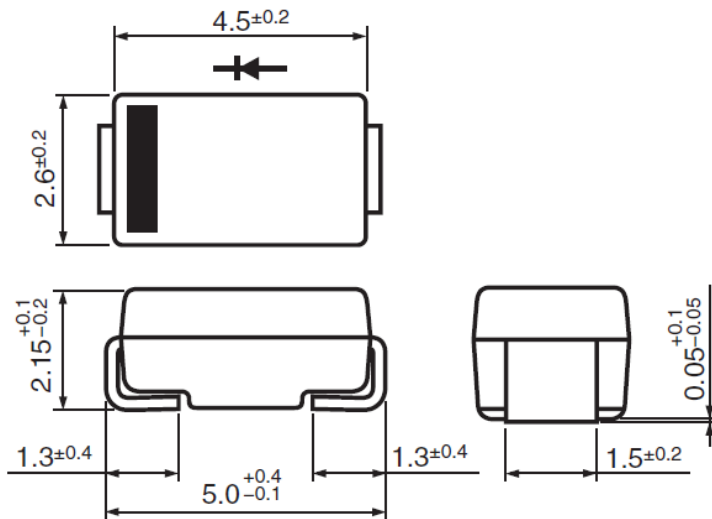
**SJPX-F2**  
Fast Recovery Diode

May. 2016

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**External Dimensions**

SJP



NOTES:

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

**Connection Diagram**



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