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

Sanken SANKEN ELECTRIC

FMXS-2206S

Fast Recovery Diode

Aug, 2011

General Description

This product is FRD that has excellent high speed performance.

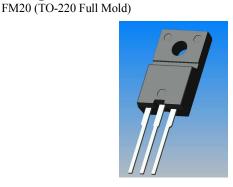
It achieved a balance between high speed at high temperature operates and low-VF.

Applications

- An DC-DC converters.
- A high current secondary rectifier.
- A high frequencies rectifier circuit, etc.

Features

- An ultrafast recovery diode.
- A balance low-VF and high speed performance at high temperature.
- A great isolation performance due to full mold package.

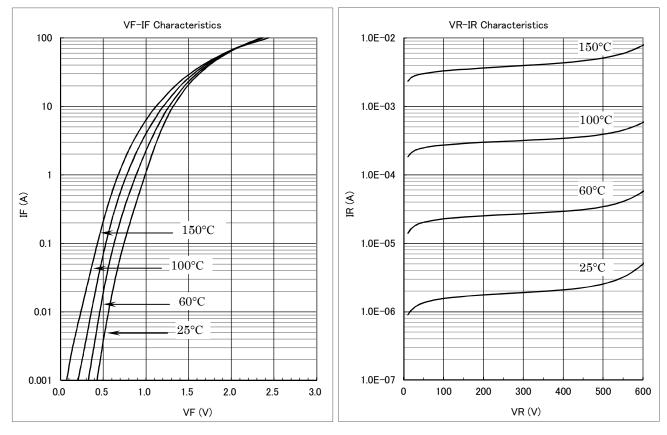


Key Specifications

Package

Item	Unit	Rating	Conditions
V _{RM}	V	600	
$V_{\rm F}$	V	1.5	I _F =10A
I _{F(AV)}	А	20	
t _{rr}	ns	30	

Typical Characteristics



VF-IF&VR-IR show ratings per one chip.

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* Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V _{RSM}	V	600	
2	Peak Reverse Voltage	V_{RM}	V	600	
3	Average Forward Current	$I_{F(AV)}$	А	20	
4	Peak Surge Forward Current	I _{FSM}	А	100	10msec. Half sinewave, one shot
5	I ² t Limiting Value	I ² t	A ² s	50	1 msec $\leq t \leq 10$ msec
6	Junction Temperature	T_j	°C	-40~ +150	
7	Storage Temperature	T _{stg}	°C	-40~ +150	

No.1,2,4&5 show ratings per one chip.

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

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	\mathbf{V}_{F}	V	1.5 max.	I _F =10A
2	Reverse Leakage Current	I _R	uA	50 max.	V _R =V _{RM}
3	Reverse Leakage Current Under High Temperature	H-I _R	mA	30 max.	V _R =V _{RM} , T _j =150°C
4 Reverse Recovery Time	trr 1	ns	30 max.	$I_F = I_{RP} = 500 \text{mA},$ $T_j = 25^{\circ}\text{C}, 90\%$ Recovery point	
	Reverse Recovery Time	trr2	ns	25 max.	I _F =500mA,I _{RP} =1A, 75% Recovery point , T _j =25°C
5	Thermal Resistance	$R_{th(j-l)}$	°C/W	4 max.	Between Junction and case

No.1,2,3&4 show characteristics per one chip.

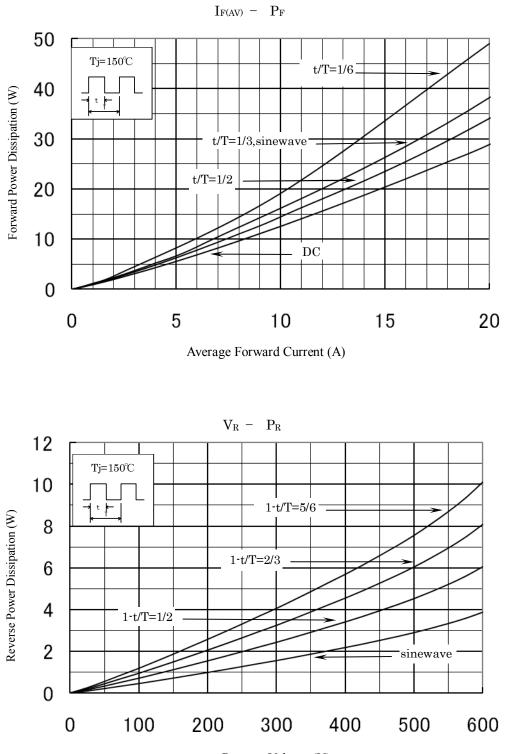
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* Characteristics



Reverse Voltage (V)

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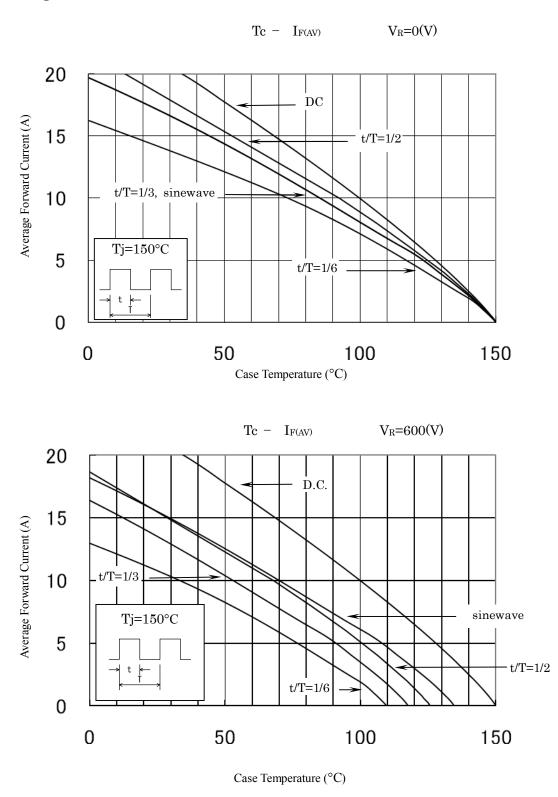
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***** Derating



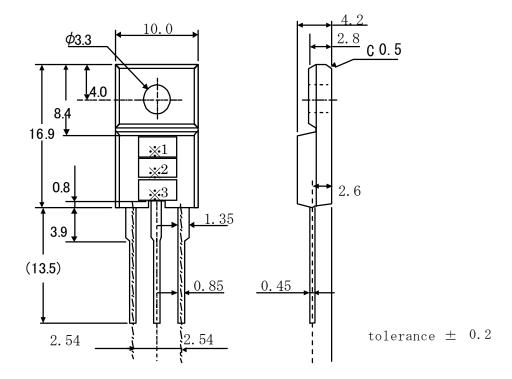
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★ Package information (mm)



Type Name	Marking				
	≫1 Type Name	※2 Polarity	X3 Lot number		
FMXS-2206S	XS2206	-▶ + ◀-	1st letter: Last digit of year 2nd letter: Month From 1 to 9 for Jan. to Sep., O for Oct., N for Nov., D for Dec. 3rd & 4th letter: Day ex. 0004 (Oct. 4, 2010)		

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