SANKEN ELECTRIC

MP2-202S

Fast Recovery Diode

Mar. 2008

General Description

MP2-202S is an ultrafast recovery diode of low leak current.
Life time killer selection realizes low leak current at high temperature.

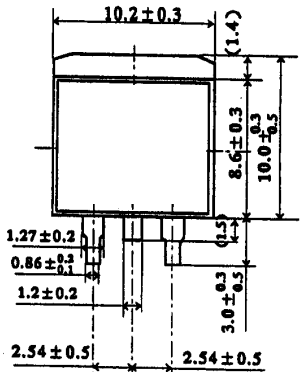
Applications

- DC-DC converter
- AC adapter
- High frequency rectifying circuit, others

Features

- An ultrafast recovery diode
- Low leak current at high temperature

Package

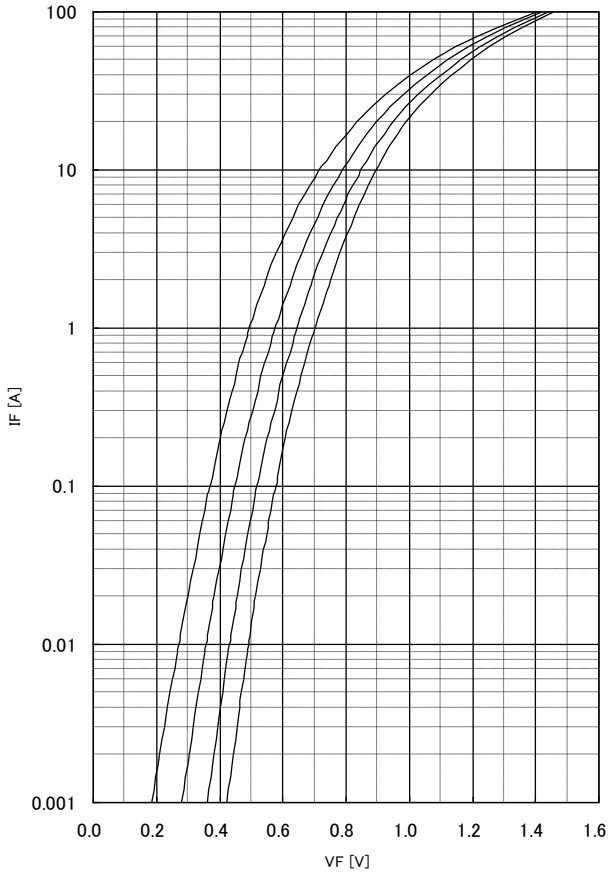


Key Specifications

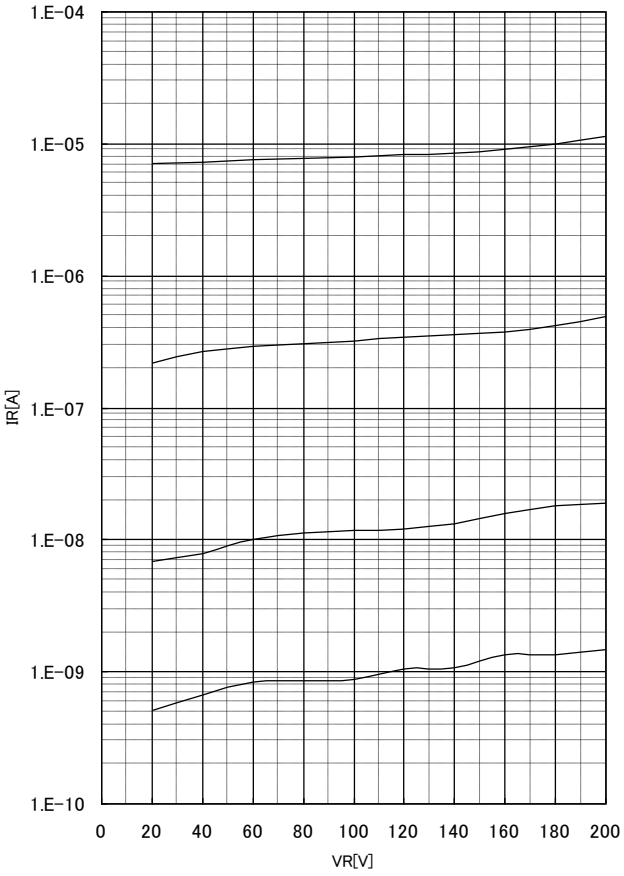
Item	Unit	Rating	Conditions
V_{RM}	V	200	
V_F	V	0.98	I_F=10A
$I_{F(AV)}$	A	20	
t_{rr}	ns	35	100mA /200mA

Typical Characteristics

MP2-202S IF-VF Typical Characteristics



MP2-202S VR-IR 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	20	
4	Peak Surge Forward Current	I_{FSM}	A	110	10msec. Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	60.5	1msec≦t≦10msec
6	Junction Temperature	T_j	℃	-40～+150	
7	Storage Temperature	T_{stg}	℃	-40～+150	

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

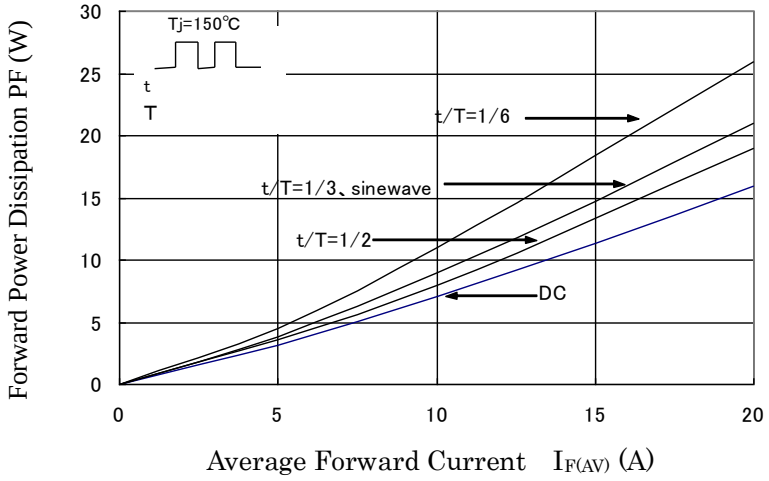
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	0.98 max.	I_F=10A
2	Reverse Leakage Current	I_R	uA	200 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	uA	400 max.	$V_R=V_{RM}$, T_j=150℃
4	Reverse Recovery Time	$t_{rr}1$	ns	50 max.	$I_F=I_{RP}$=100mA 90% Recovery point, T_j=25℃
		$t_{rr}2$	ns	35 max.	I_F=100mA, I_{RP}=200mA 75% Recovery point, T_j=25℃
5	Forward Voltage Drop	$R_{th(j-c)}$	℃/W	2.5 max.	Between Junction and case

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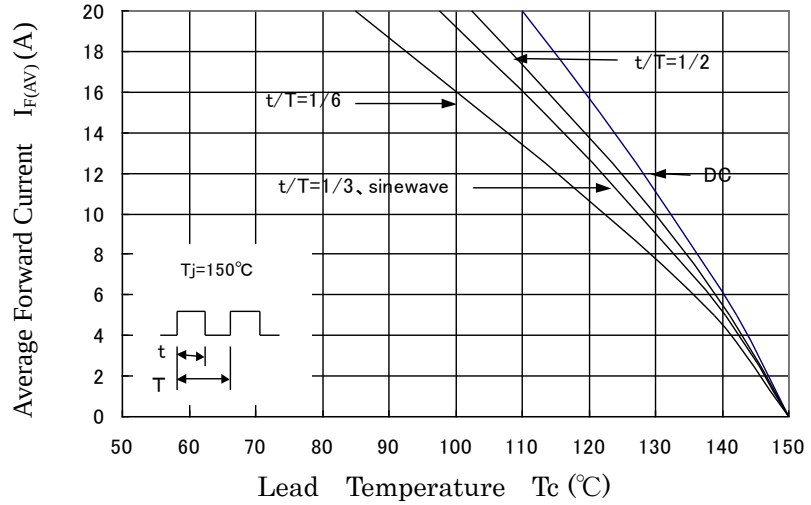
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✶ **Characteristics**

Average Forward Current — Forward Power Dissipation Characteristics

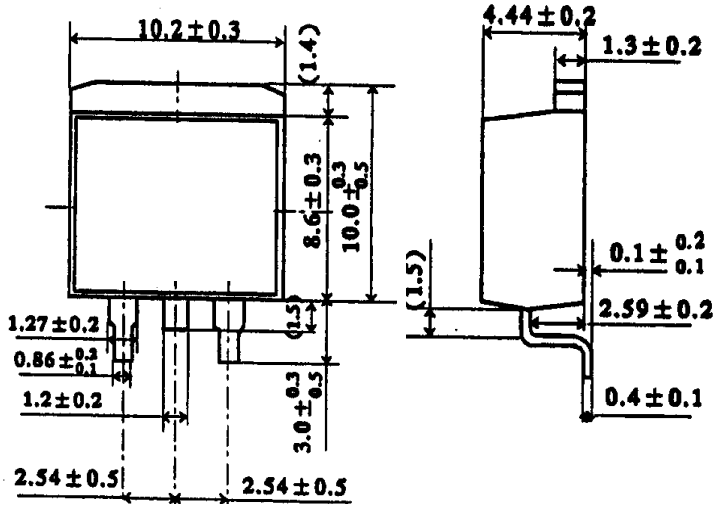


Lead Temperature — Average Forward Current V_R=200V

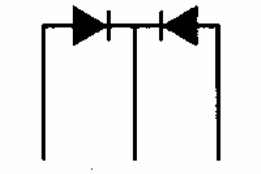


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Package information (mm)



Connection diagram



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