

MP2-202S

Mar. 2008

Fast Recovery Diode

General Description

MP2-202S is an ultrafast recovery diode of low leak current.

Life time killer selection realizes low leak current at high temperature.

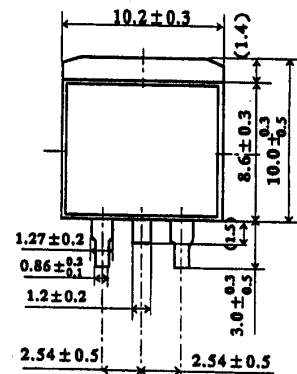
Applications

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

Features

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

Package

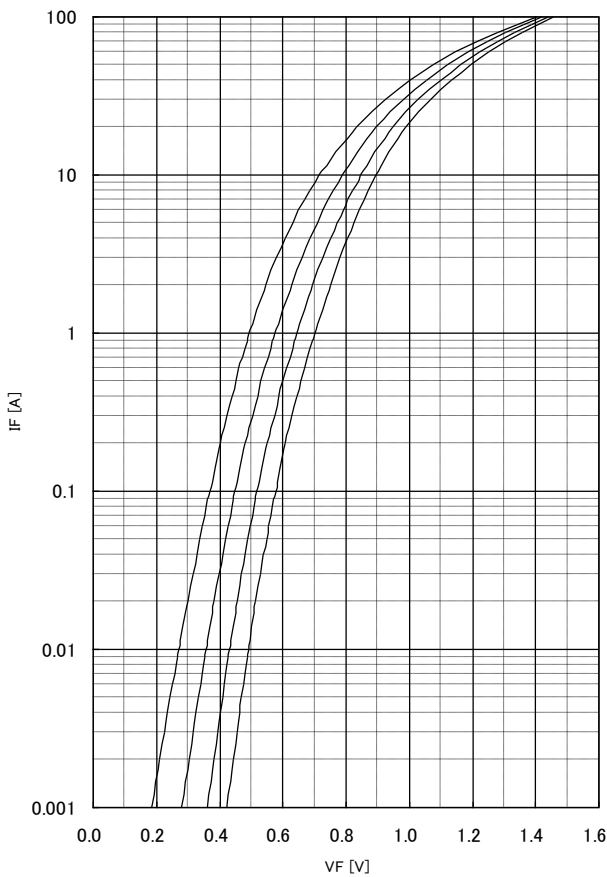


Key Specifications

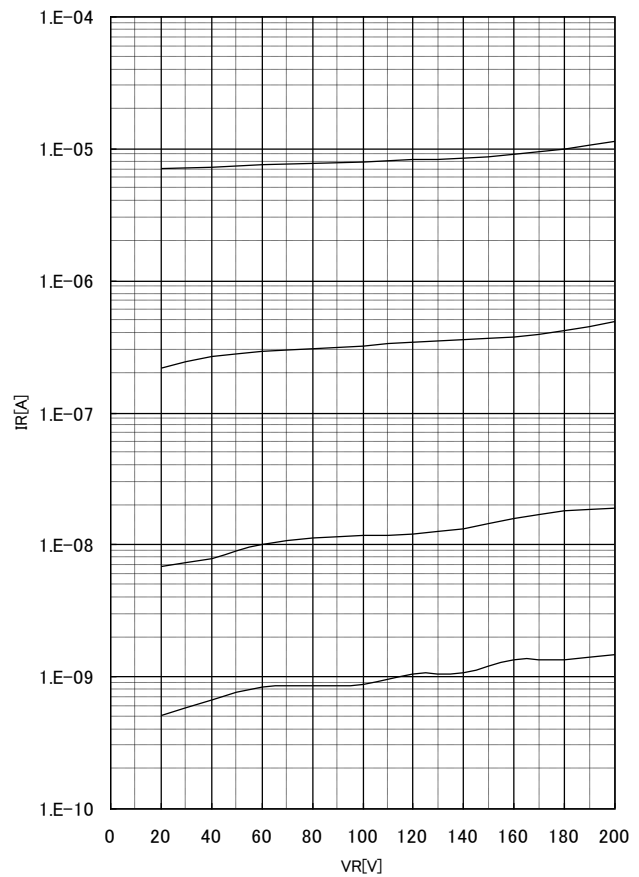
Item	Unit	Rating	Conditions
V_{RM}	V	200	
V_F	V	0.98	$I_F=10A$
$I_{F(AV)}$	A	20	
t_{rr}	ns	35	100mA /200mA

Typical Characteristics

MP2-202S I_F - V_F Typical Characteristics



MP2-202S V_R - I_R Typical Characteristics



The contents in this document are subject to changes, for improvement and other purposes, without notice.
Make sure that this is the latest version of the document before use.

MP2-202S

Mar. 2008

Fast Recovery Diode

★ **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 ² s	60.5	1msec $\leq t \leq$ 10msec
6	Junction Temperature	T_j	°C	-40~+150	
7	Storage Temperature	T_{stg}	°C	-40~+150	

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

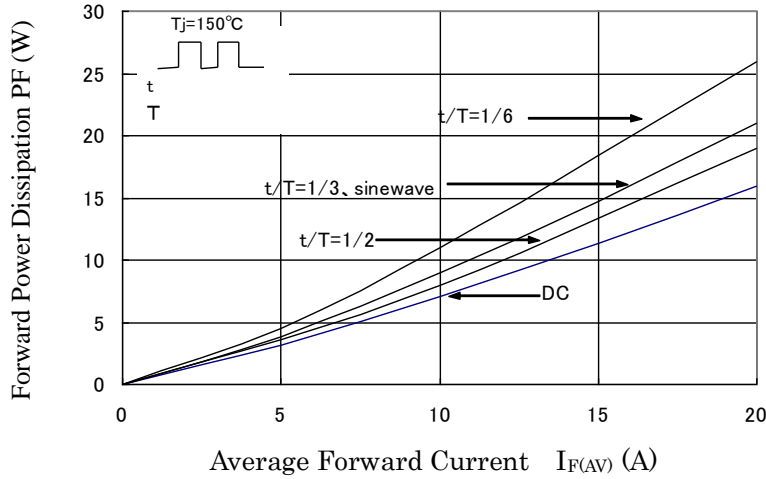
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	0.98 max.	$I_F=10A$
2	Reverse Leakage Current	I_R	μA	200 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	μA	400 max.	$V_R=V_{RM}, T_j=150^\circ C$
4	Reverse Recovery Time	t_{rr1}	ns	50 max.	$I_F=I_{RP}=100mA$ 90% Recovery point, $T_j=25^\circ C$
		t_{rr2}	ns	35 max.	$I_F=100mA, I_{RP}=200mA$ 75% Recovery point, $T_j=25^\circ C$
5	Forward Voltage Drop	$R_{th(j-c)}$	°C/W	2.5 max.	Between Junction and case

The contents in this document are subject to changes, for improvement and other purposes, without notice.

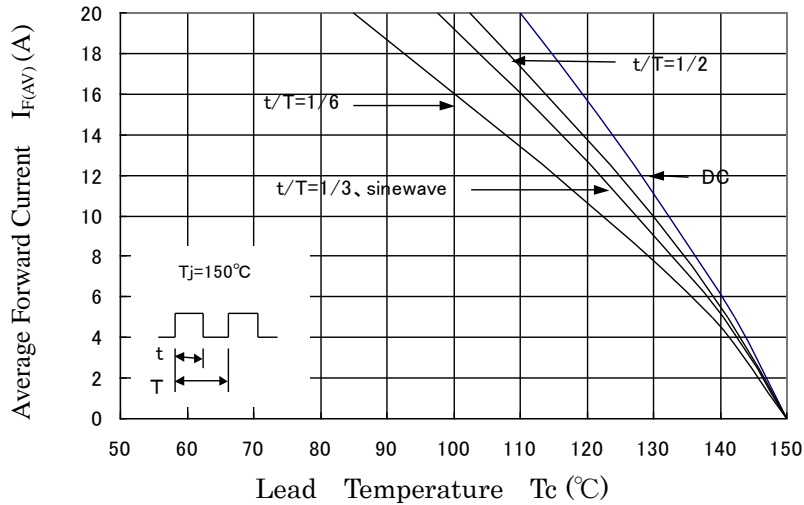
Make sure that this is the latest version of the document before use.

★ **Characteristics**

Average Forward Current — Forward Power Dissipation Characteristics



Lead Temperature — Average Forward Current $V_R=200\text{V}$



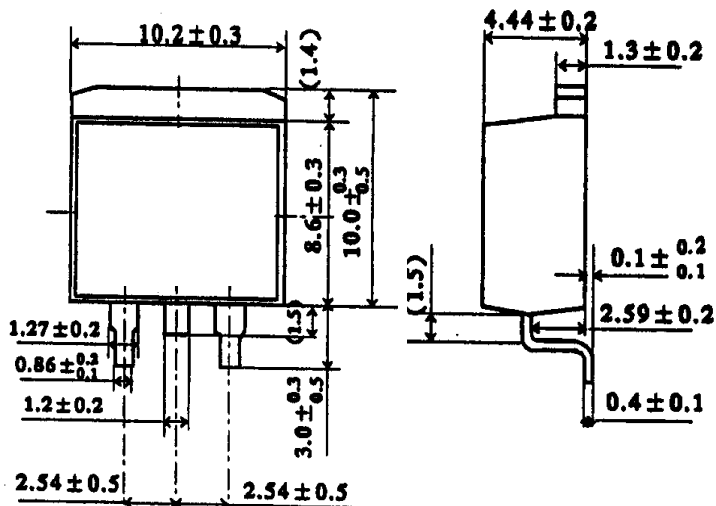
The contents in this document are subject to changes, for improvement and other purposes, without notice.
 Make sure that this is the latest version of the document before use.

MP2-202S

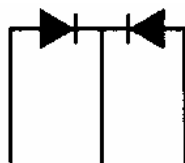
Mar. 2008

Fast Recovery Diode

Package information (mm)



Connection diagram



The contents in this document are subject to changes, for improvement and other purposes, without notice.
Make sure that this is the latest version of the document before use.