THE DATASHEET OF

FMW-2206

SANKEN ELECTRIC

FMW-2206

Schottky Barrier Rectifier

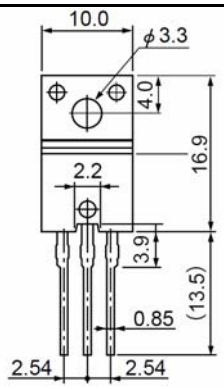
Mar. 2008

General Description

FMW-2206 is a Schottky Barrier Diode, and has achieved low leakage current and low VF by selecting the best barrier metal.

Package

TO220F(3Pin)



Applications

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

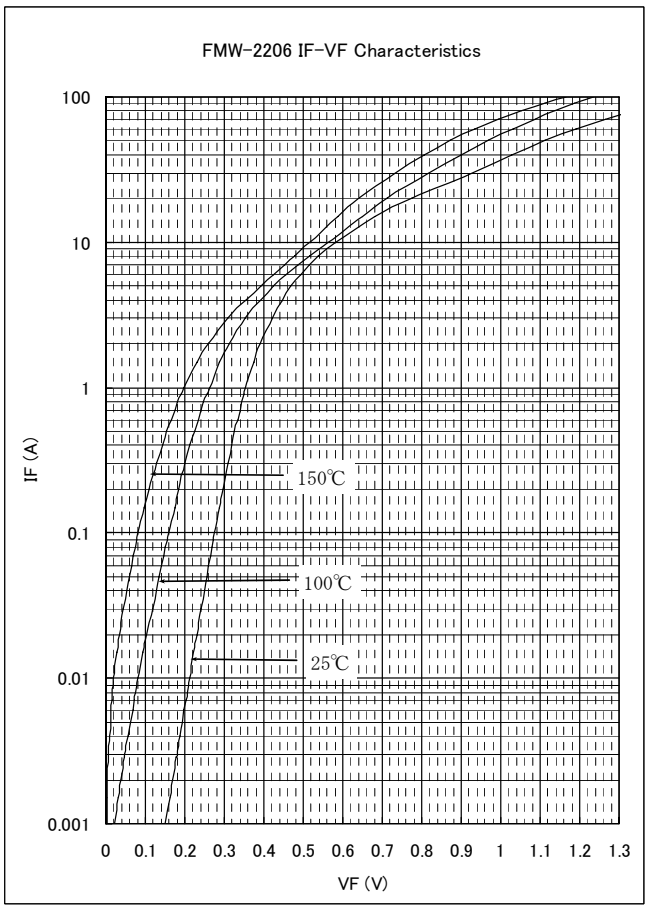
Features

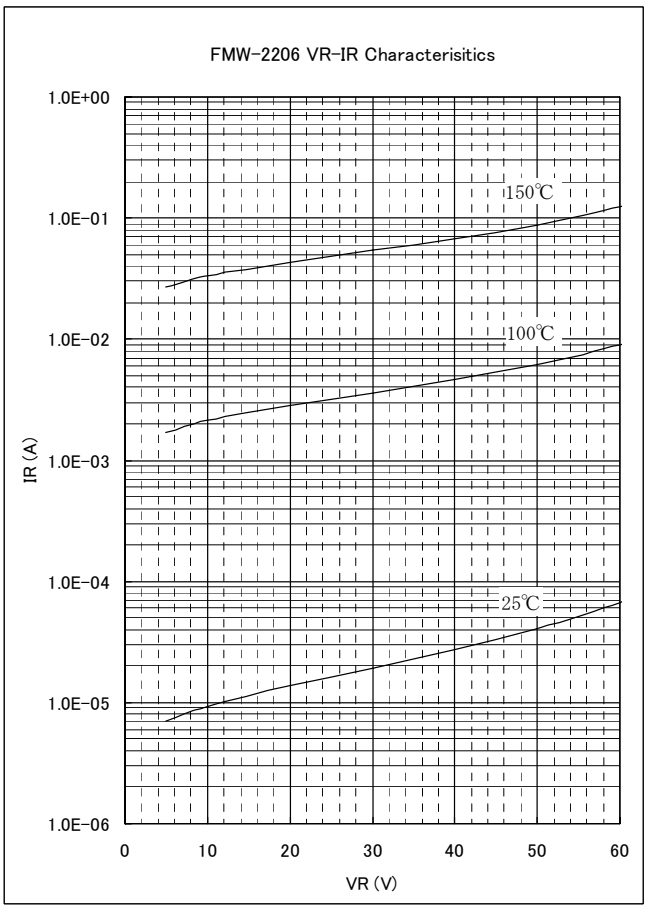
- Super-high speed & low noise switching.
- Low forward voltage drop.

Key Specifications

Symbol	Unit	Rating	Conditions
V_{RM}	V	60	
V_F	V	0.70	I_F=10A
$I_{F(AV)}$	A	20	

Typical Characteristics





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✶ **Absolute maximum ratings**

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	60	
2	Peak Reverse Voltage	V_{RM}	V	60	
3	Average Forward Current	$I_{F(AV)}$	A	20	
4	Peak Surge Forward Current	I_{FSM}	A	120	Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	72	1msec<t<10msec
6	Junction Temperature	T_j	°C	-40 to +150	
7	Storage Temperature	T_{stg}	°C	-40 to +150	

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

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

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Forward Voltage Drop	V_F	V	0.70 max.	I_F=10A
2	Reverse Leakage Current	I_R	mA	1.0 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H•I_R$	mA	250 max.	$V_R=V_{RM}$, T_j=150°C
4	Thermal Resistance	$R_{th(j-c)}$	°C /W	4.0 max.	Between Junction and Case

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

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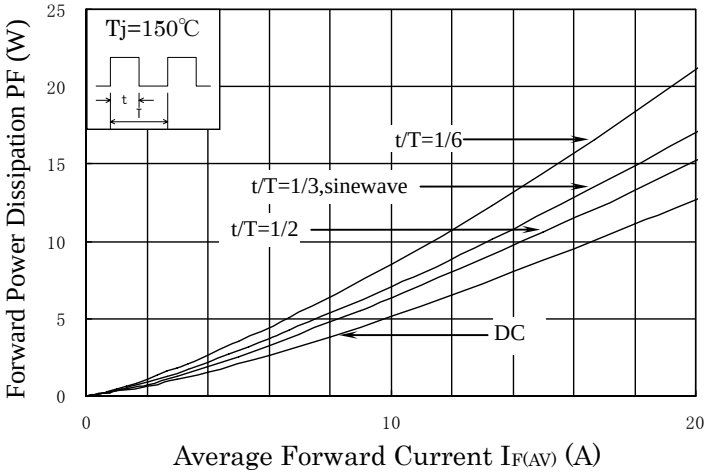
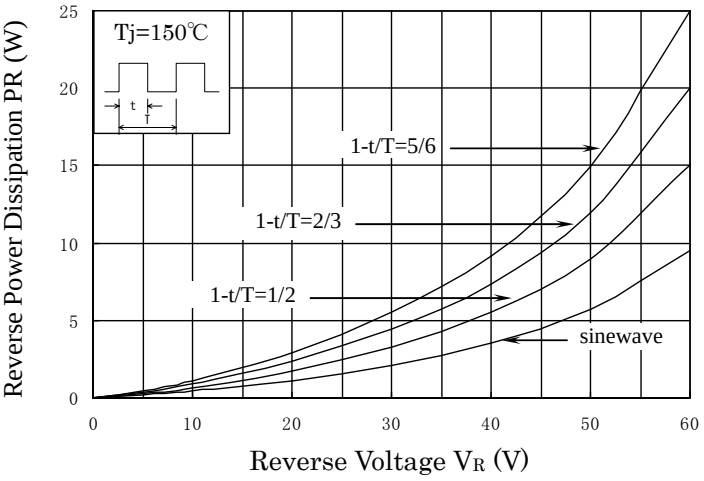
✶ **Characteristics**

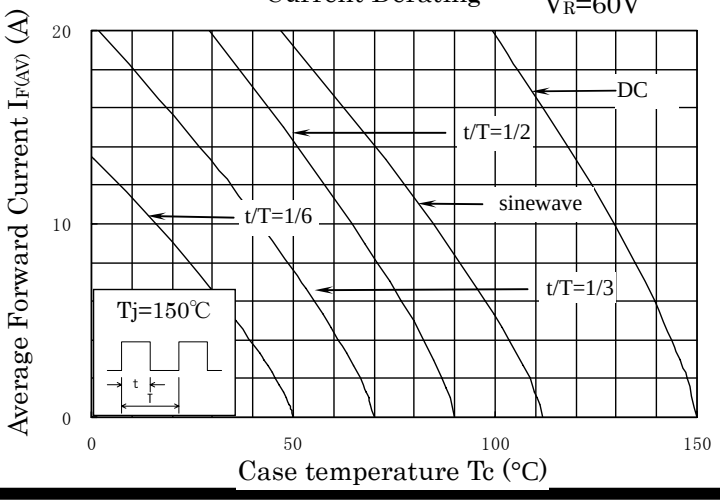
Forward Power Dissipation



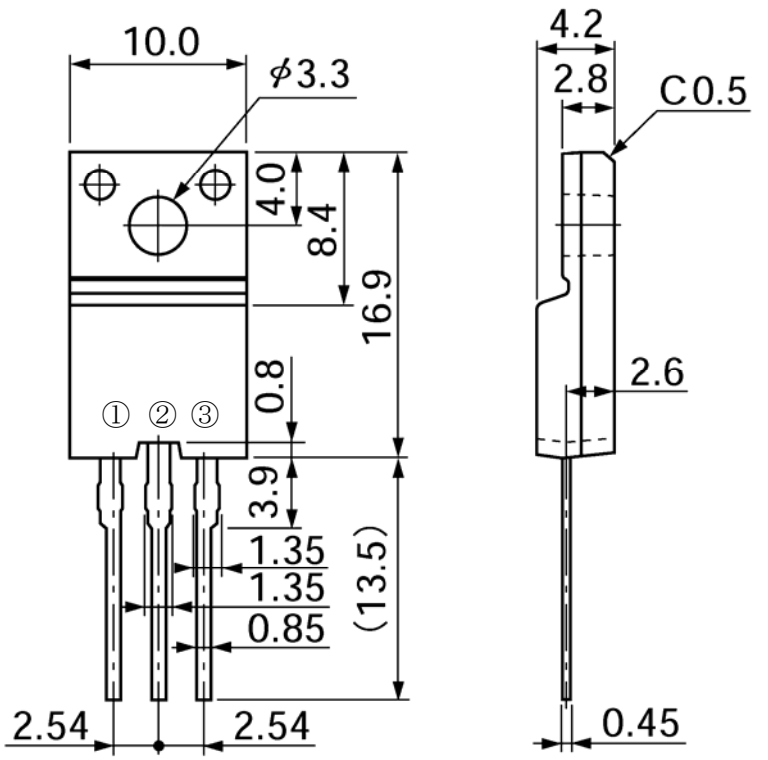
Reverse Power Dissipation



Current Derating V_R=60V

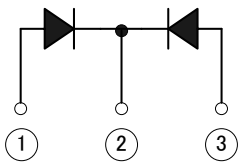


✶ **Outline drawings, mm**



tolerance:±0.2

✶ **Connection Diagram**



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