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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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# FMW-2106

Mar. 2008

Schottky Barrier Rectifier

### General Description

FMW-2106 is a Schottky Barrier Diode, and has achieved low leakage current and low VF by selecting the best barrier metal.

### Applications

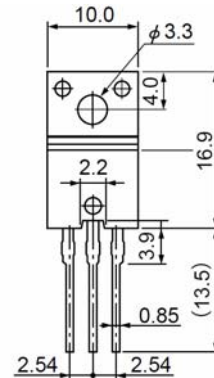
- DC-DC converters
- AC adapter
- High frequency rectification circuit

### Features

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

### Package

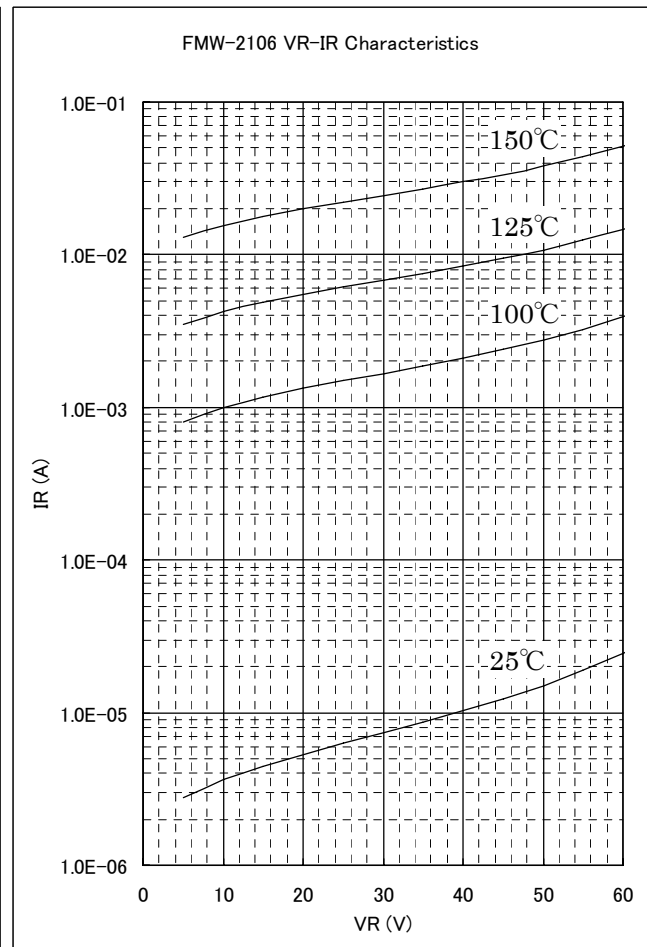
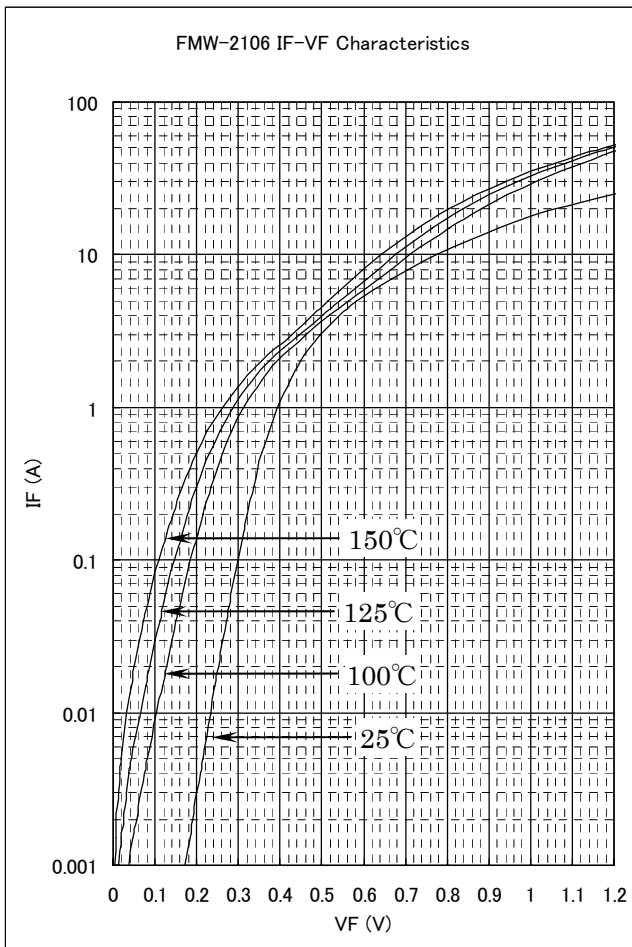
TO220F(3Pin)



### Key Specifications

Symbol	Unit	Rating	Conditions
$V_{RM}$	V	60	
$V_F$	V	0.70	$I_F=5.0A$
$I_{F(AV)}$	A	10	

### Typical Characteristics



The information included herein is believed to be accurate and reliable. However, SANKEN ELECTRIC CO., LTD assumes no responsibility for its use ; nor for any infringements of patents or other rights of third parties that may result from its use.

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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	10	
4	Peak Surge Forward Current	$I_{FSM}$	A	100	Half sinewave, one shot
5	$I^2t$ Limiting Value	$I^2t$	$A^2s$	50	$1msec < t < 10msec$
6	Junction Temperature	$T_j$	$^{\circ}C$	-40 to +150	
7	Storage Temperature	$T_{stg}$	$^{\circ}C$	-40 to +150	

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

**\* Electrical characteristics( $T_a=25^{\circ}C$ , unless otherwise specified)**

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Forward Voltage Drop	$V_F$	V	0.70 max.	$I_F=5.0A$
2	Reverse Leakage Current	$I_R$	mA	3.0 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	mA	125 max.	$V_R=V_{RM}, T_j=150^{\circ}C$
4	Thermal Resistance	$R_{th(j-c)}$	$^{\circ}C/W$	4.0 max.	Between Junction and case

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

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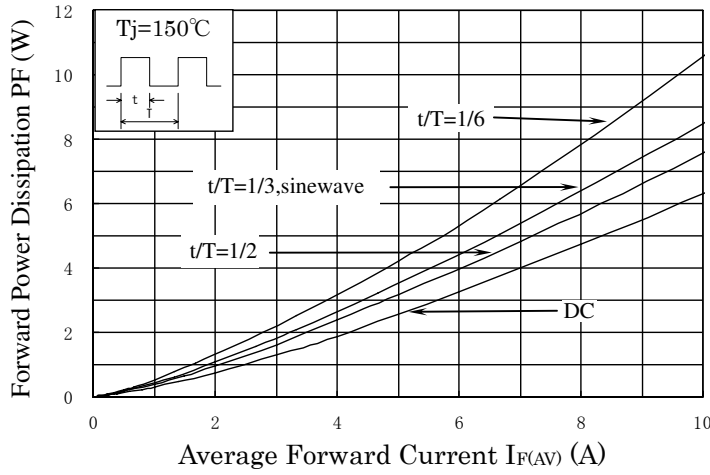
**FMW-2106**

Schottky Barrier Rectifier

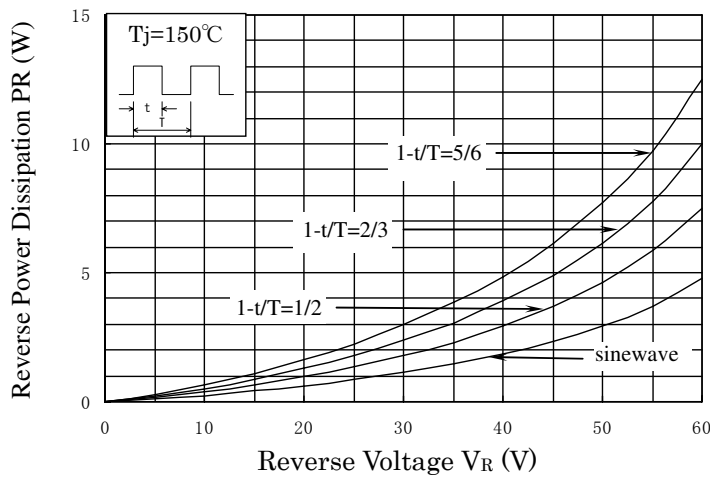
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★ **Characteristics**

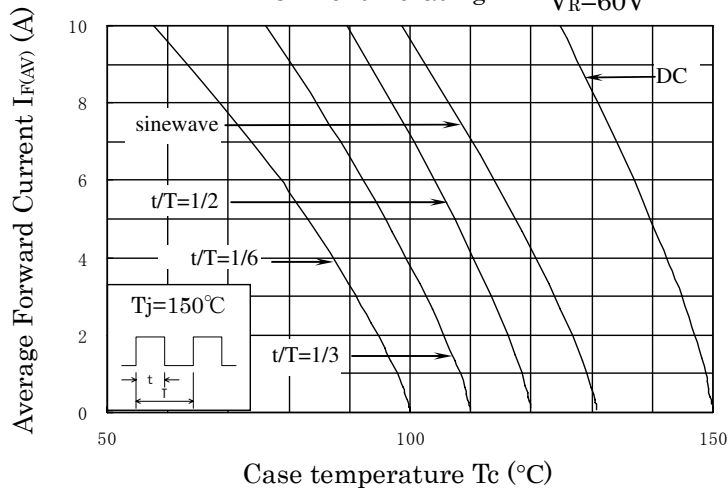
**Forward Power Dissipation**



**Reverse Power Dissipation**



**Current Derating**  $V_R=60\text{V}$

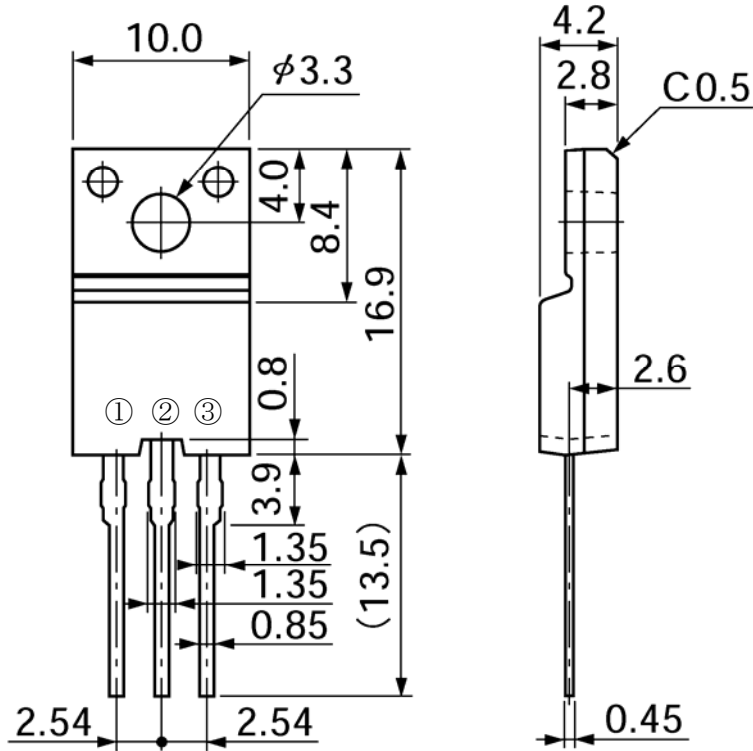


**FMW-2106**

Schottky Barrier Rectifier

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★ Outline drawings, mm



tolerance:±0.2

★ Connection Diagram

