

FMW-2156

Schottky Barrier Rectifier

Mar. 2008

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

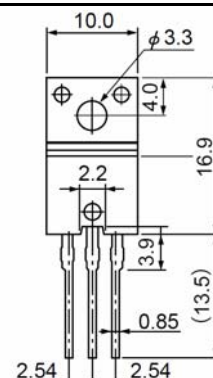
- DC-DC converters
- AC adapter
- High frequency rectification circuit

Features

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

Package

TO220F(3Pin)

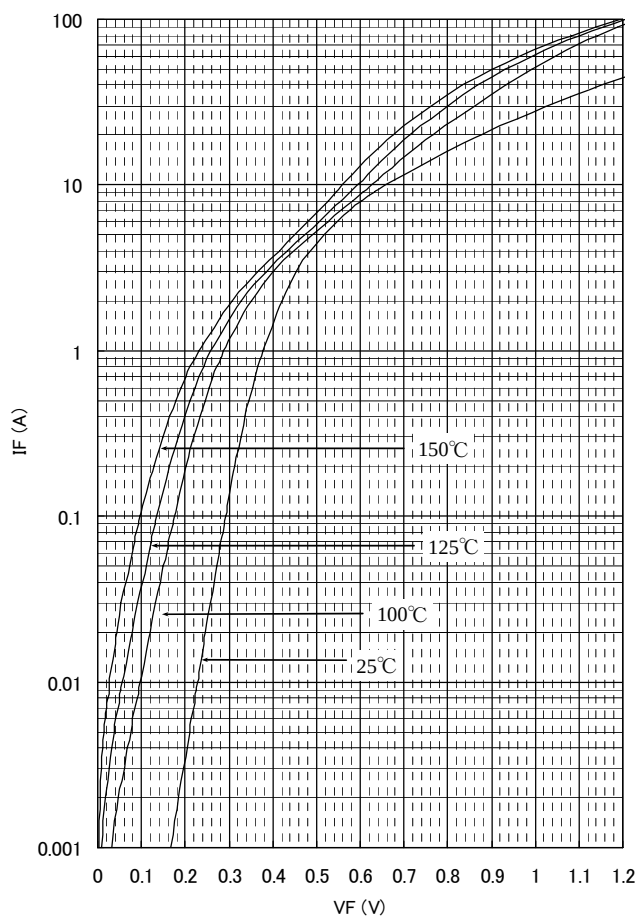


Key Specifications

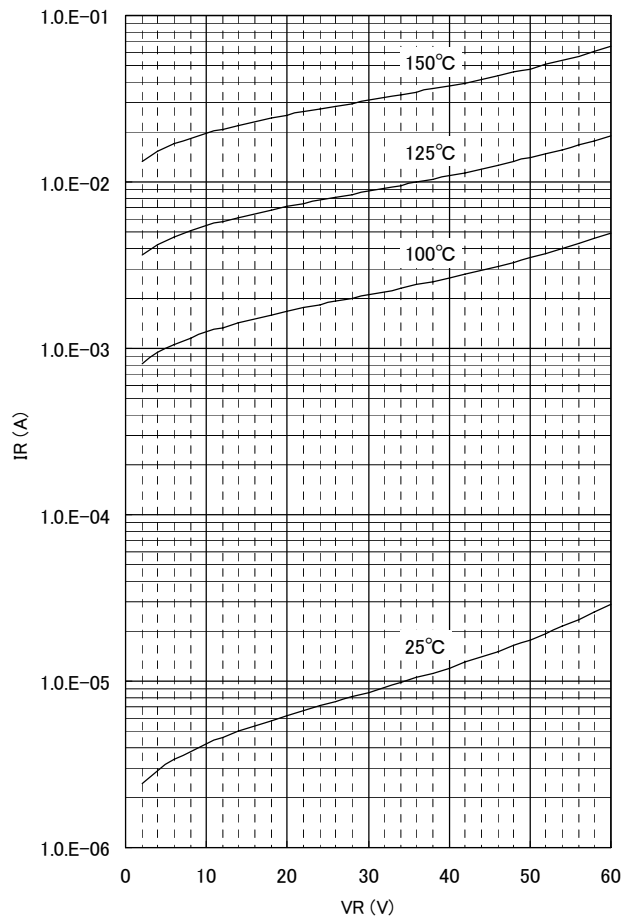
Symbol	Unit	Rating	Conditions
V_{RM}	V	60	
V_F	V	0.70	$I_F=7.5A$
$I_{F(AV)}$	A	15	

Typical Characteristics

FMW-2156 IF-VF Characteristics



FMW-2156 VR-IR 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	15	
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	°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($T_a=25^\circ C$, unless otherwise specified)

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Forward Voltage Drop	V_F	V	0.70 max.	$I_F=7.5A$
2	Reverse Leakage Current	I_R	mA	5.0 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	mA	175 max.	$V_R=V_{RM}$, $T_j=150^\circ C$
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.

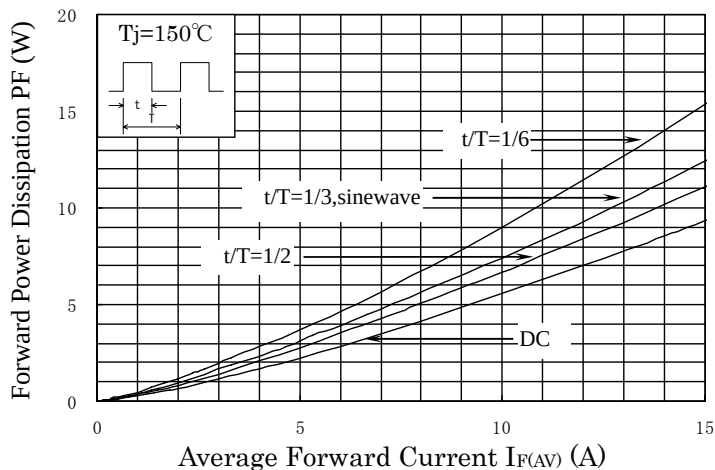
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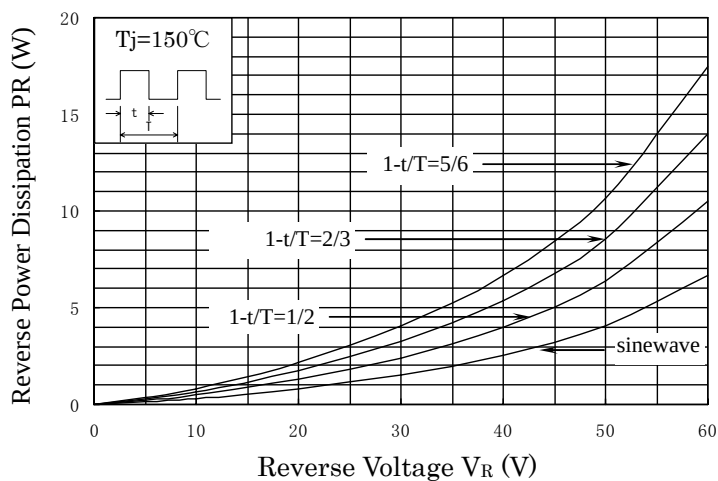
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★ Characteristics

Forward Power Dissipation

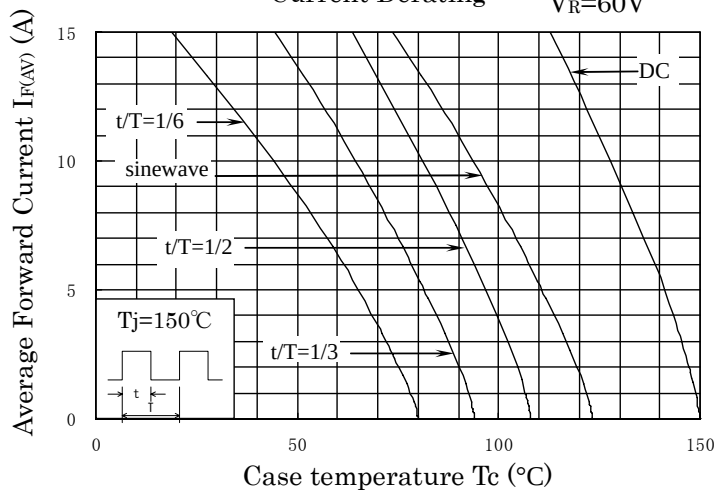


Reverse Power Dissipation



Current Derating

$V_R=60\text{V}$

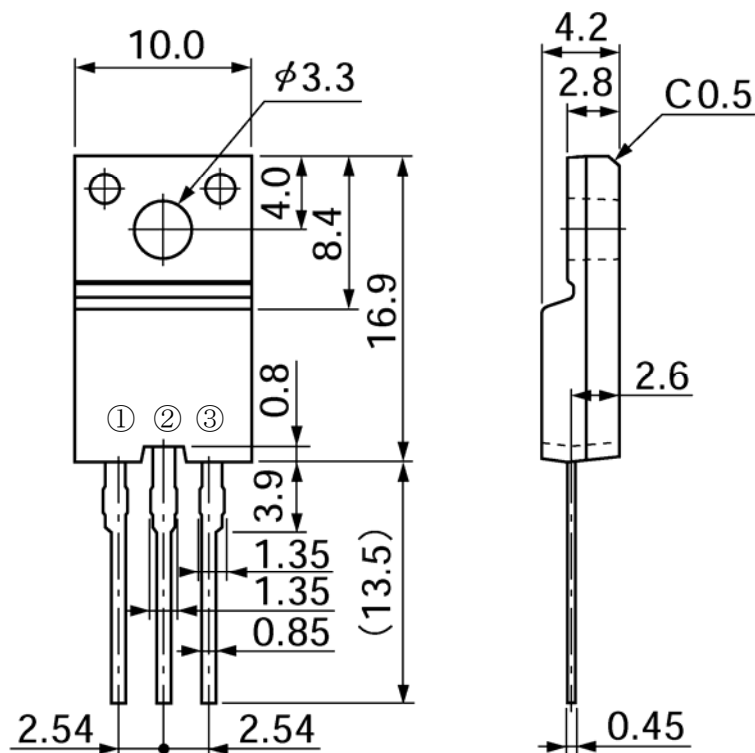


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★ Outline drawings, mm



★ Connection Diagram

