



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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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FMEN-230A

High Voltage Schottky Barrier Rectifier

Mar. 2008

General Description

FMEN-230A is a High Voltage (100V) Schottky Barrier Diode, and has achieved low leakage current and low VF by selecting the best barrier metal.

Applications

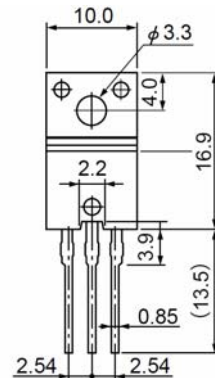
- DC-DC converters
- AC adapter
- High frequency rectification circuit

Features

- High Voltage 100V guarantee
- Steady operation is possible even at the high temperature by the low leakage current.
- Super-high speed & low noise switching.
- Low forward voltage drop.

Package

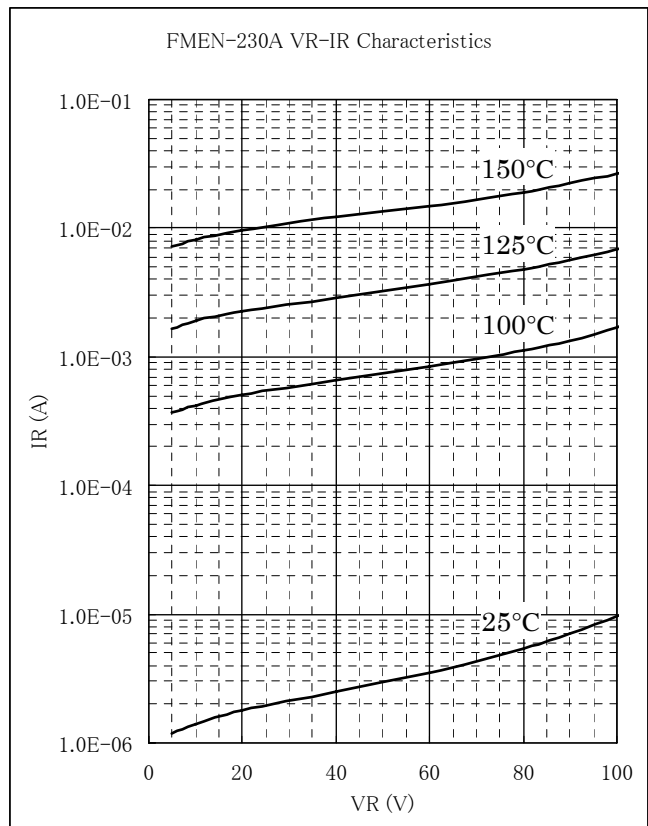
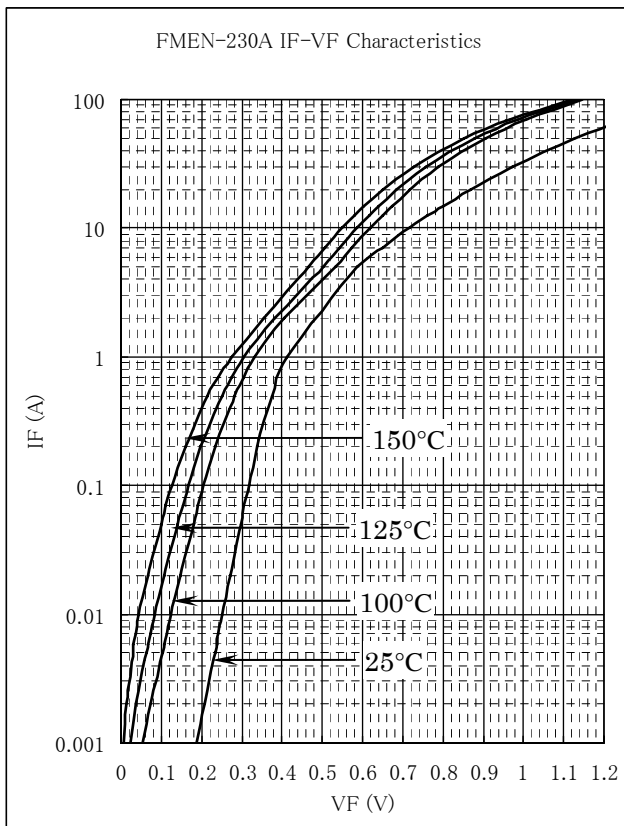
TO220F(3Pin)



Key Specifications

Symbol	Unit	Rating	Conditions
V_{RM}	V	100	
V_F	V	0.85	$I_F=15A$
$I_{F(AV)}$	A	30	

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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High Voltage Schottky Barrier Rectifier

★ Absolute maximum ratings

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	100	
2	Peak Reverse Voltage	V_{RM}	V	100	
3	Average Forward Current	$I_{F(AV)}$	A	30	
4	Peak Surge Forward Current	I_{FSM}	A	150	Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	112.5	$1msec < t < 10msec$
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 (Ta=25°C, unless otherwise specified)

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Forward Voltage Drop	V_F	V	0.85 max.	$I_F=15A$
2	Reverse Leakage Current	I_R	μA	300 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	mA	150 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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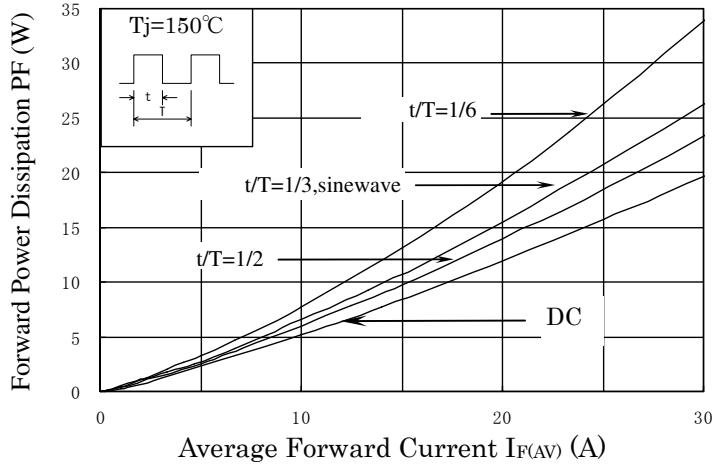
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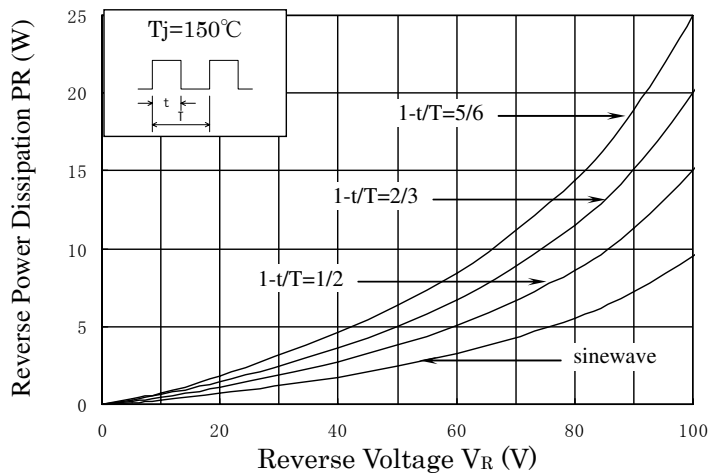
High Voltage Schottky Barrier Rectifier

★ **Characteristics**

Forward Power Dissipation

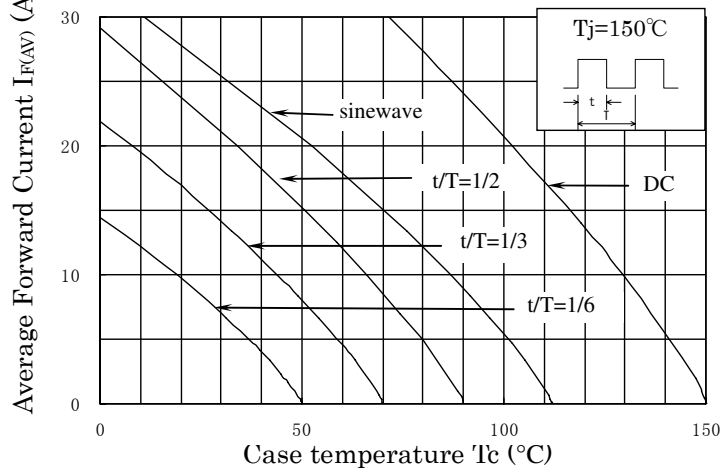


Reverse Power Dissipation



Current Derating

$V_R=150\text{V}$

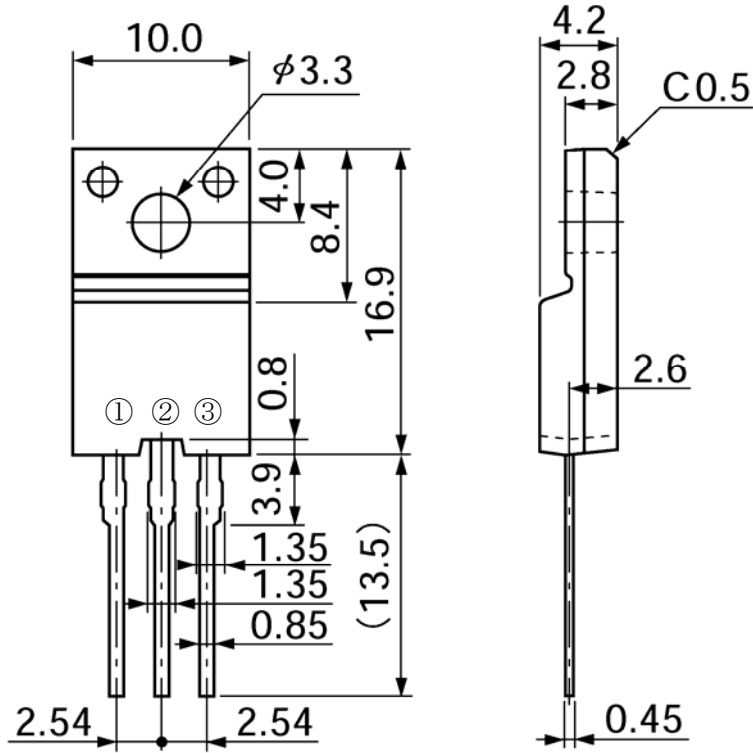


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High Voltage Schottky Barrier Rectifier

★ Outline drawings, mm



tolerance: ± 0.2

★ Connection Diagram

