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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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## ■General Description

FMEN-220A 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 guaranteed.
- Steady operation is possible even at the high temperature by the low leakage current.
- Super-high speed & low switching noise.
- Low forward voltage drop.

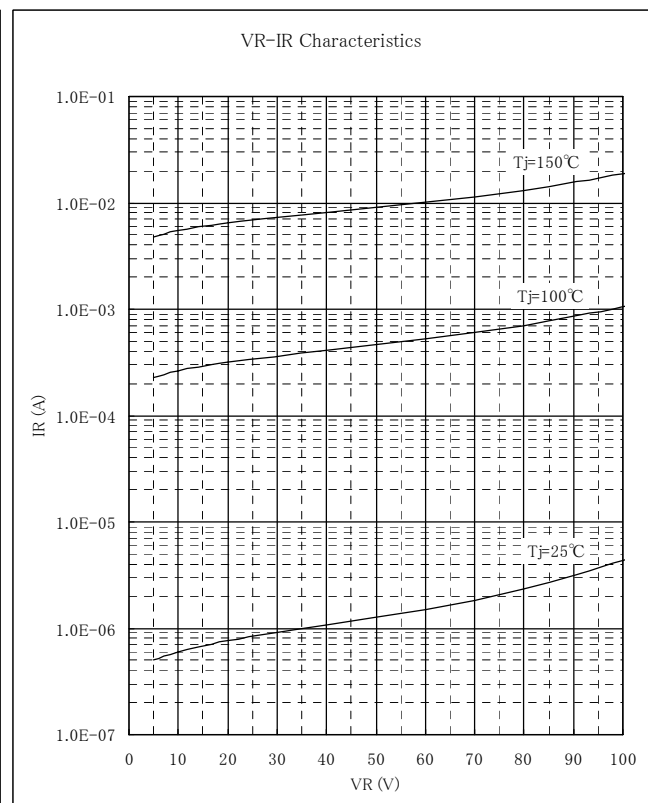
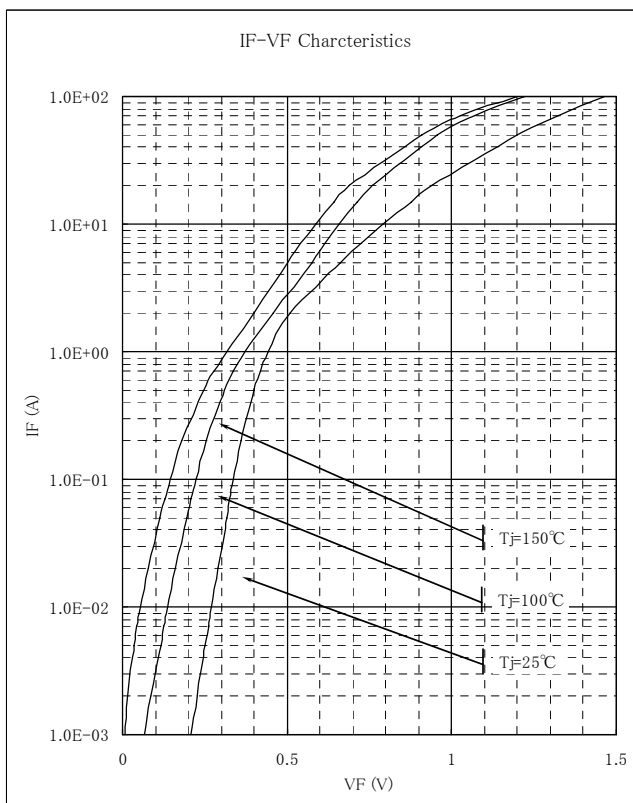
## ■Package---TO220F



## ■Key Specifications

Item	Unit	Rating	Conditions
$V_{RM}$	V	100	
$V_F$	V	0.85	$I_F=10A$
$I_{F(AV)}$	A	20	

## Typical Characteristics



★ **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	20	
4	Peak Surge Forward Current	$I_{FSM}$	A	120	Half sinewave, one shot
5	$I^2t$ Limiting Value	$I^2t$	$A^2s$	72	$1msec \leq t \leq 10msec$
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)**

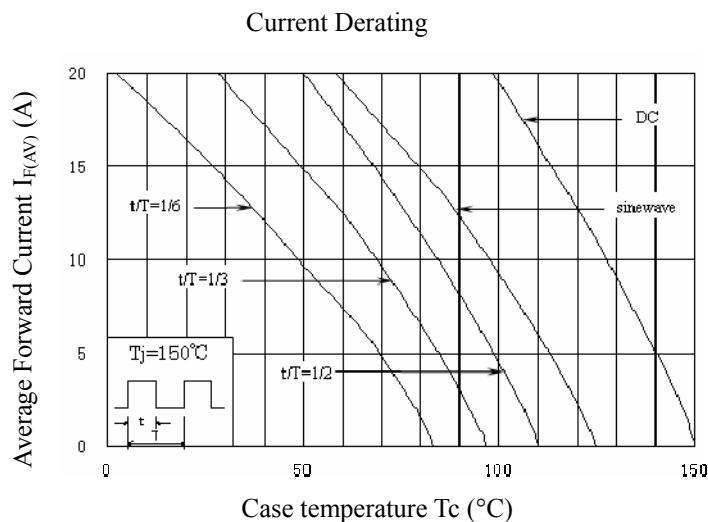
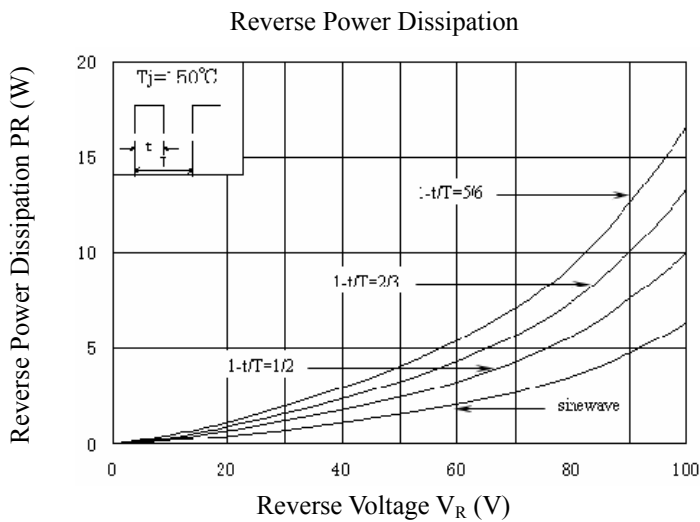
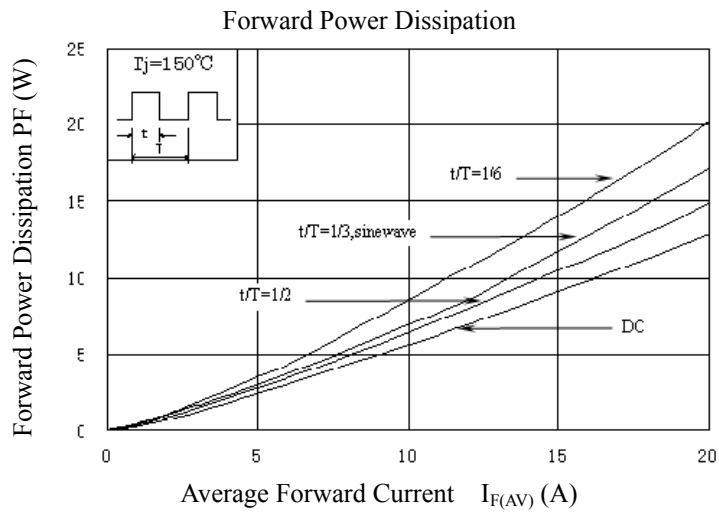
No.	Parameter	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	$V_F$	V	0.85 max.	$I_F=10A$
2	Reverse Leakage Current	$I_R$	$\mu A$	200 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	mA	100 max.	$V_R=V_{RM}$ , $T_j=150^{\circ}C$
4	Thermal Resistance	$R_{th(j-c)}$	$^{\circ}C/W$	4.0 max.	Between Junction and case

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

# FMEN-220A

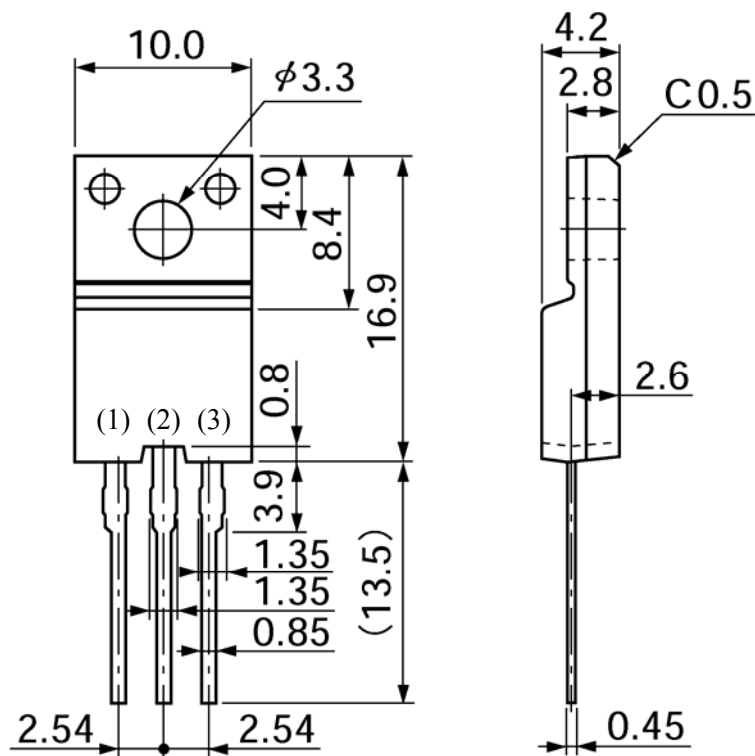
March, 2006

★ Characteristics



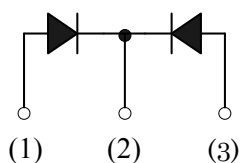
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★ External Dimensions (Unit: mm)



Tolerance:  $\pm 0.2$

★ Connection Diagram



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