

March, 2006

■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.

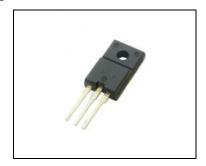
■Applications

- 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.

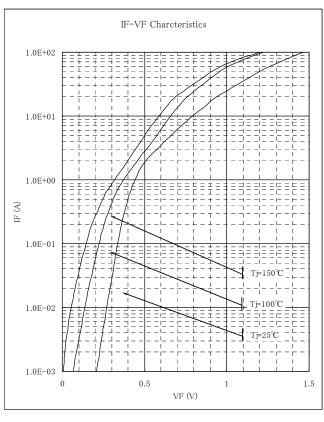
■Package---TO220F

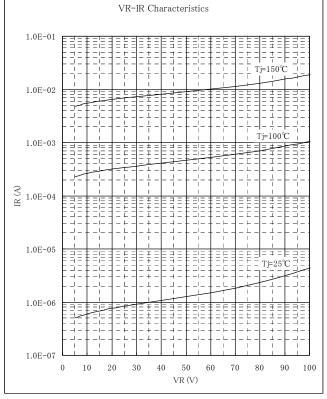


■Key Specifications

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

Typical Characteristics







March, 2006

★ Absolute maximum ratings

No.	Parameter	Symbol	Unit	Rating	Conditions
1	1 Transient Peak Reverse Voltage		V	100	
2	2 Peak Reverse Voltage		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 ² t Limiting Value	I^2t	A^2s	72	$1msec \le t \le 10msec$
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)

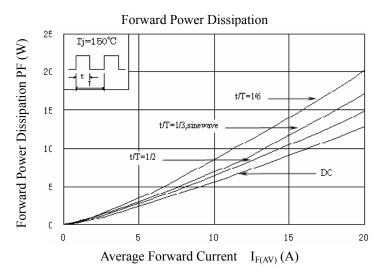
No.	Parameter	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_{F}	V	0.85 max.	I _F =10A
2	2 Reverse Leakage Current		uA	200 max.	$V_R = V_{RM}$
3	Reverse Leakage Current Under High Temperature	H•I _R	mA	100 max.	V _R =V _{RM} , T _j =150°C
4	Thermal Resistance	R _{th(j-c)}	°C/W	4.0 max.	Between Junction and case

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

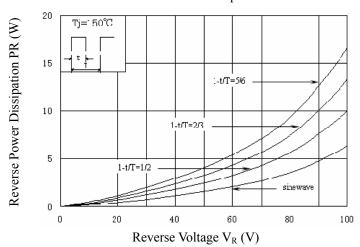


March, 2006

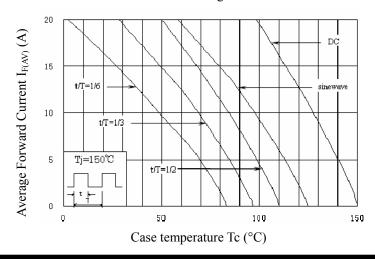
* Characteristics



Reverse Power Dissipation



Current Derating

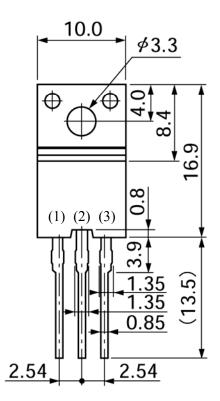


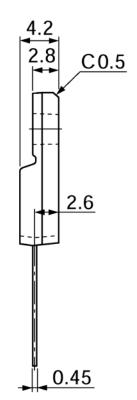
SanKen

FMEN-220A

March, 2006

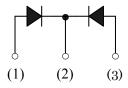
★ External Dimensions (Unit: mm)





Tolerance: ± 0.2

* Connection Diagram





March, 2006

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March, 2006

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March, 2006

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