

March, 2006

■General Description

FMEN-210A 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.

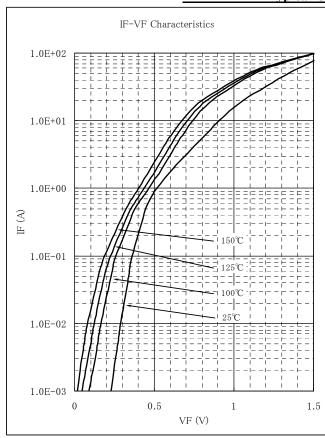
■Package---TO220F

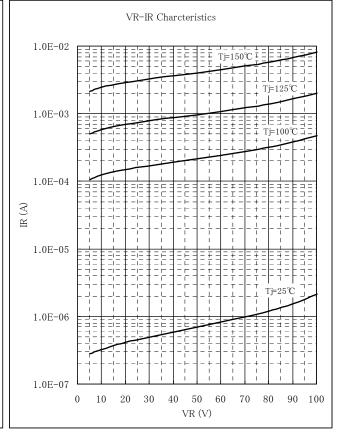


■Key Specifications

Item	Unit	Rating	Conditions	
V_{RM}	V	100		
V_{F}	V	0.85	$I_F=5.0A$	
I _{F(AV)}	A	10		

Typical Characteristics







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

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

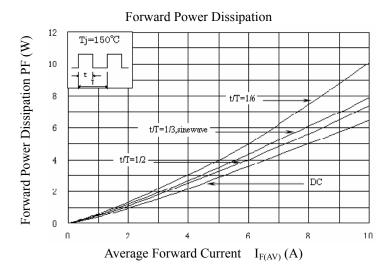
★ Electrical characteristics(Ta=25°C, unless otherwise specified)

No.	Parameter	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_{F}	V	0.85 max.	I _F =5.0A
2	Reverse Leakage Current	I_R	uA	100 max.	$V_R = V_{RM}$
3	Reverse Leakage Current Under High Temperature	H•I _R	mA	50 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

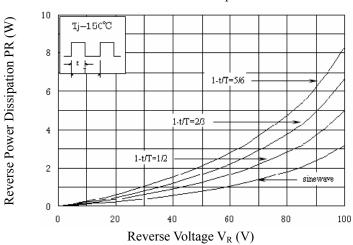
No.1,2,&3 show characteristics per one chip.

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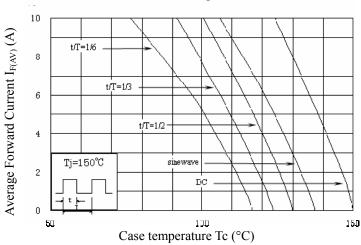
* Characteristics



Reverse Power Dissipation

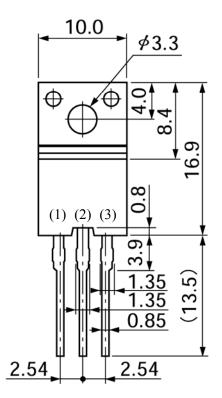


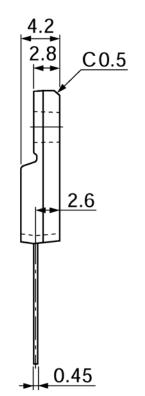
Current Derating



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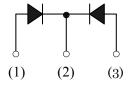
★ External Dimensions (Unit: mm)





Tolerance: ± 0.2

* Connection Diagram



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FMEN-210A

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