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#### ■General Description

FME-220B is a High Voltage (150V) Schottky Barrier Diode, and has achieved low leakage current and low VF by selecting the best barrier metal.

•Steady operation is possible even at the high

VF (V)

temperature by the low leakage current. •Super-high speed & low noise switching.

#### Applications

- •DC-DC converters
- •AC adapter

■Features

•High frequency rectification circuit

•High Voltage 150V guarantee

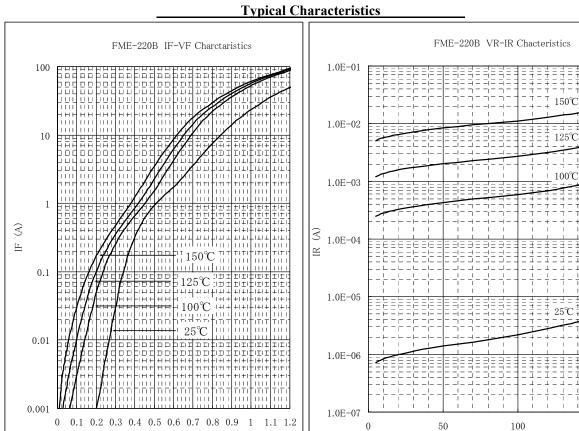
•Low forward voltage drop.

#### ■Package---TO220F



#### **Key Specifications**

Symbol	Unit	Rating	Conditions
V <sub>RM</sub>	V	150	
V <sub>F</sub>	V	0.90	I <sub>F</sub> =10A
I <sub>F(AV)</sub>	А	20	



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#### D01-013EA-070323

VR (V)

150





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#### \* Absolute maximum ratings

No.	Parameter	Symbol	Unit	Rating	Conditions
1	1 Transient Peak Reverse Voltage		V	150	
2	Peak Reverse Voltage	$V_{RM}$	V	150	
3	Average Forward Current	$I_{F(AV)}$	А	20	
4	Peak Surge Forward Current	I <sub>FSM</sub>	А	120	Half sinewave, one shot
5	I <sup>2</sup> t Limiting Value	$I^2t$	A <sup>2</sup> s	72	1msec <t<10msec< td=""></t<10msec<>
6	Junction Temperature	Tj	°C	-40 to +150	
7	Storage Temperature	T <sub>stg</sub>	°C	-40 to +150	

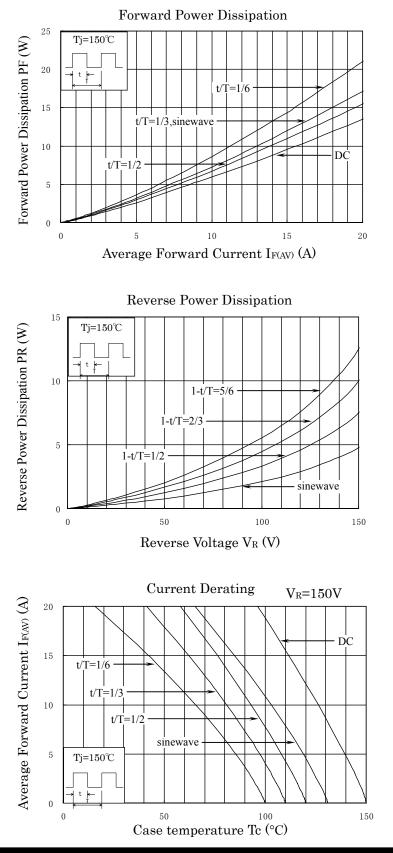
No.1, 2, 4 & 5 show ratings per one chip.

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Forward Voltage Drop	$\mathbf{V}_{\mathrm{F}}$	V	0.90 max.	I <sub>F</sub> =10A
2	Reverse Leakage Current	I <sub>R</sub>	uA	200 max.	V <sub>R</sub> =V <sub>RM</sub>
3	Reverse Leakage Current Under High Temperature	H•I <sub>R</sub>	mA	50 max.	V <sub>R</sub> =V <sub>RM</sub> , T <sub>j</sub> =150°C
4	Thermal Resistance	$R_{th(j-c)}$	°C /W	4.0 max.	Between Junction and case

### **\*** Electrical characteristics (Ta=25°C, unless otherwise specified)

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

\* Characteristics



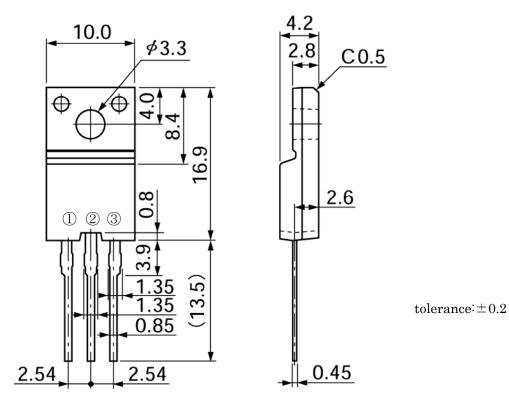
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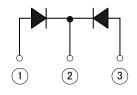
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\* External Dimensions, mm



**\*** Connection Diagram



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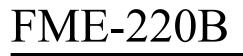
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Sanken Electric Co., Ltd

Schottky Barrier Diode





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