Schottky Barrier Diode

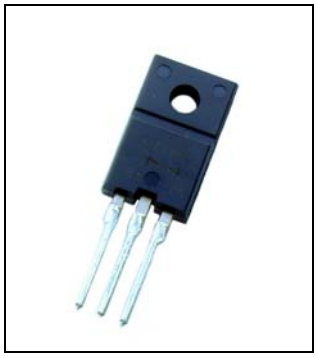
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■General Description

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.

■Package---TO220F



■Applications

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

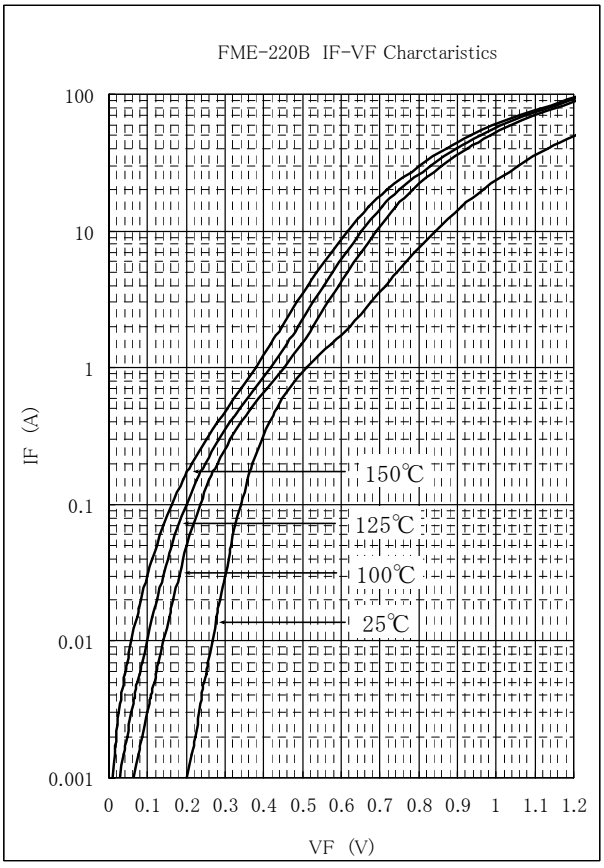
■Features

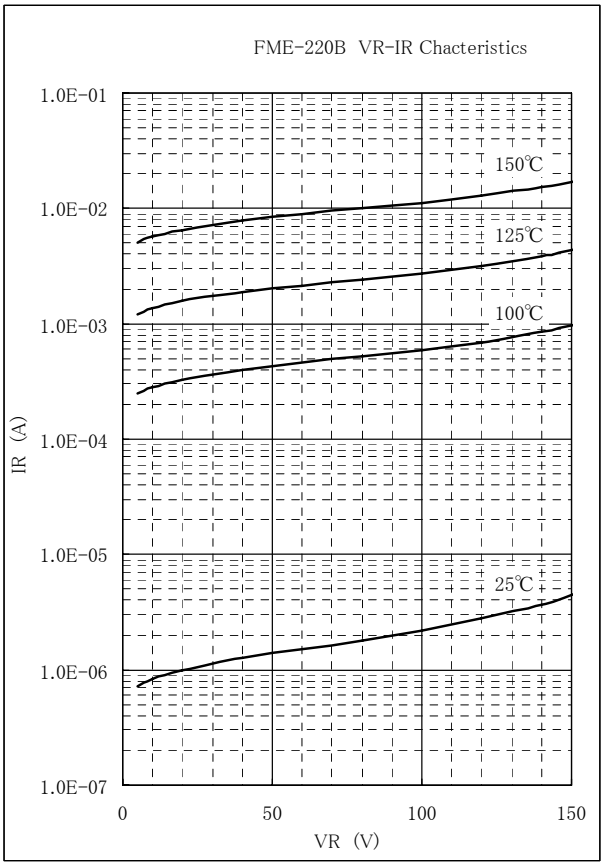
- ●High Voltage 150Vguarantee
- ●Steady operation is possible even at the high temperature by the low leakage current.
- ●Super-high speed & low noise switching.
- ●Low forward voltage drop.

■Key Specifications

Symbol	Unit	Rating	Conditions
V_{RM}	V	150	
V_F	V	0.90	I_F=10A
$I_{F(AV)}$	A	20	

Typical Characteristics





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✶ **Absolute maximum ratings**

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	150	
2	Peak Reverse Voltage	V_{RM}	V	150	
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<t<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	Rating	Conditions
1	Forward Voltage Drop	V_F	V	0.90 max.	I_F=10A
2	Reverse Leakage Current	I_R	uA	200 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

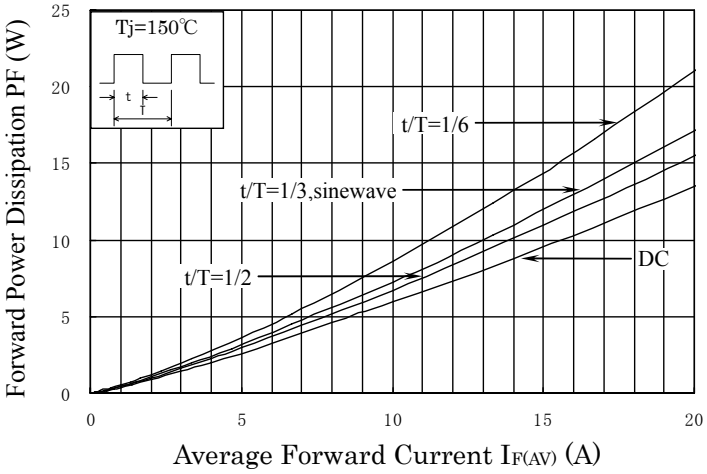
No.1, 2 & 3 show characteristics per one chip.

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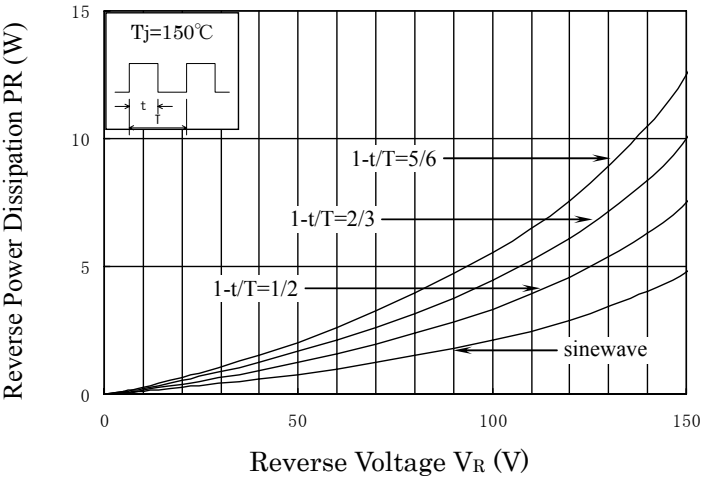
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✶ **Characteristics**

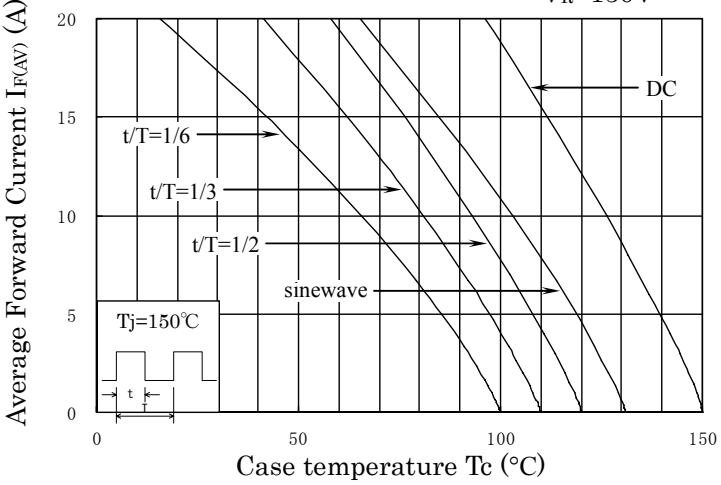
Forward Power Dissipation



Reverse Power Dissipation



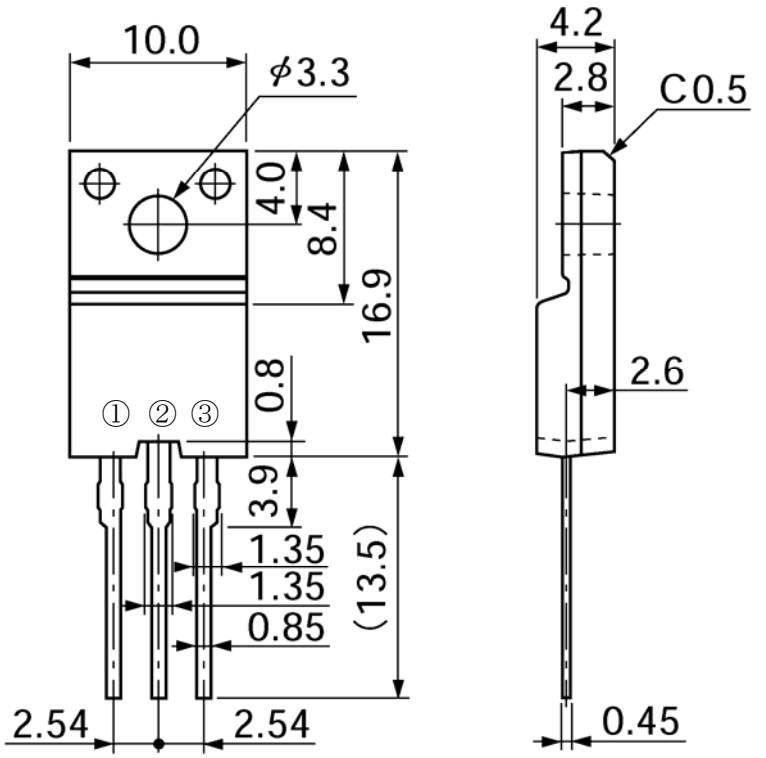
Current Derating V_R=150V



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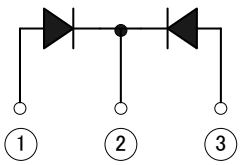
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✶ **External Dimensions, mm**



tolerance:±0.2

✶ **Connection Diagram**



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<Worldwide Contacts>

Asia Pacific

China

Sanken Electric Hong Kong Co., Ltd.
Suite 1026 Ocean Centre, Canton Road, Tsimshatsui, Kowloon, Hong Kong
Tel: 852-2735-5262
Fax: 852-2735-5494

Sanken Electric (Shanghai) Co., Ltd.
Room3202, Maxdo Centre, Xingyi Road 8, Changning district, Shanghai, China
Tel: 86-21-5208-1177
Fax: 86-21-5208-1757

India

Saket Devices Pvt. Ltd.
Office No.13, First Floor, Bandal - Dhankude Plaza, Near PMT Depot, Paud Road, Kothrud, Pune - 411 038, India
Tel: 91-20-5621-2340
Fax: 91-20-2528-5459

Japan

Sanken Electric Co., Ltd. Overseas Sales Headquaters
Metropolitan Plaza Bldg. 1-11-1 Nishi-Ikebukuro, Toshima-ku, Tokyo 171-0021, Japan
Tel: 81-3-3986-6164
Fax: 81-3-3986-8637

Korea

Sanken Electric Korea Co., Ltd.
Mirae Asset Life Bldg. 6F, 168 Kongduk-dong, Mapo-ku, Seoul, 121-705, Korea
Tel: 82-2-714-3700
Fax: 82-2-3272-2145

Singapore

Sanken Electric Singapore Pte. Ltd.
150 Beach Road, #14-03 The Gateway West, Singapore 189720
Tel: 65-6291-4755
Fax: 65-6297-1744

Taiwan

Taiwan Sanken Electric Co., Ltd.
Room 1801, 18th Floor, 88 Jung Shiau East Road, Sec. 2, Taipei 100, Taiwan R.O.C.
Tel: 886-2-2356-8161
Fax: 886-2-2356-8261

Europe

France

Allegro MicroSystems Europe
Les Pleiades, Park Nord Annecy, 74370 Metz-Tessy, France
Tel: 33-450512359
Fax: 33-450512083

United Kingdom

Sanken Power Systems (UK) Limited
Pencoed Technology Park Pencoed, Bridgend CF35 5HY. UK .
Tel: 44-1656-869-100
Fax: 44-1656-869-162

North America

United States

Allegro MicroSystems, Inc.
115 Northeast Cutoff, Worcester, Massachusetts 01606, U.S.A.
Tel: 1-508-853-5000
Fax: 1-508-853-3353

Allegro MicroSystems, Inc. (Southern California)
14 Hughes Street, Suite B105, Irvine, CA 92618
Tel: 1-949-460-2003
Fax: 1-949-460-7837

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