

FME-210B

April. 2007

General Description

FME-210B is a High Voltage (150V) Schottky Barrier Diode, and has achieved low leakage current and low VF by selecting the best barrier metal.

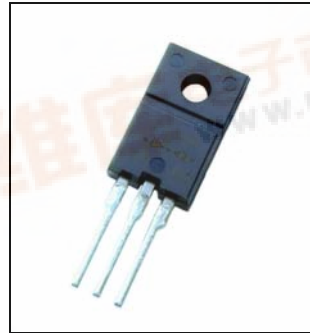
Applications

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

Features

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

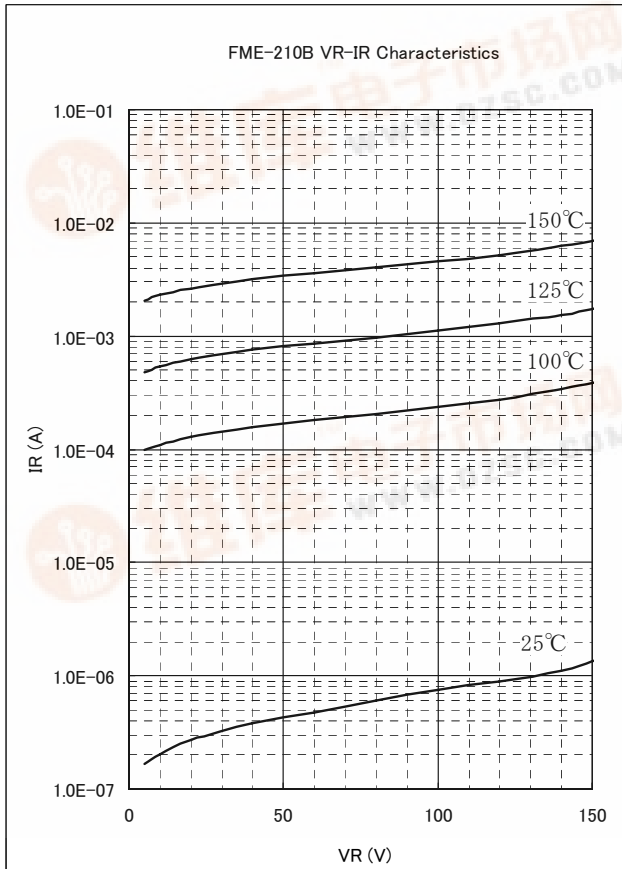
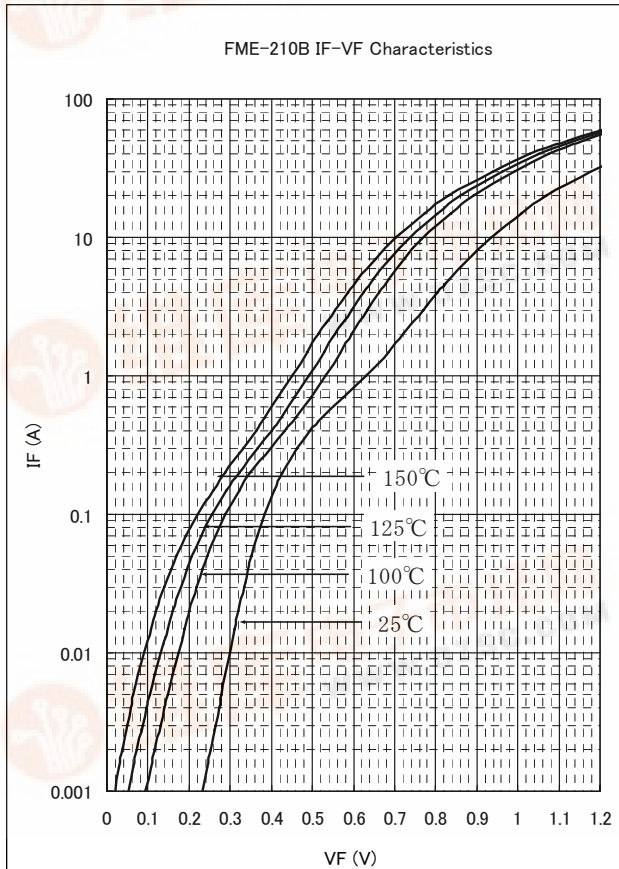
Package---TO220F



Key Specifications

| Symbol | Unit | Rating | Conditions |
|-------------|------|--------|------------|
| V_{RM} | V | 150 | |
| V_F | V | 0.90 | $I_F=5.0A$ |
| $I_{F(AV)}$ | A | 10 | |

Typical Characteristics



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★ Absolute maximum ratings

| No. | Parameter | Symbol | Unit | Rating | Conditions |
|-----|--------------------------------|-------------|-------------|-------------|-------------------------|
| 1 | Transient Peak Reverse Voltage | V_{RSM} | V | 150 | |
| 2 | Peak Reverse Voltage | V_{RM} | V | 150 | |
| 3 | Average Forward Current | $I_{F(AV)}$ | A | 10 | |
| 4 | Peak Surge Forward Current | I_{FSM} | A | 100 | Half sinewave, one shot |
| 5 | I^2t Limiting Value | I^2t | A^2s | 50 | $1msec < t < 10msec$ |
| 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)

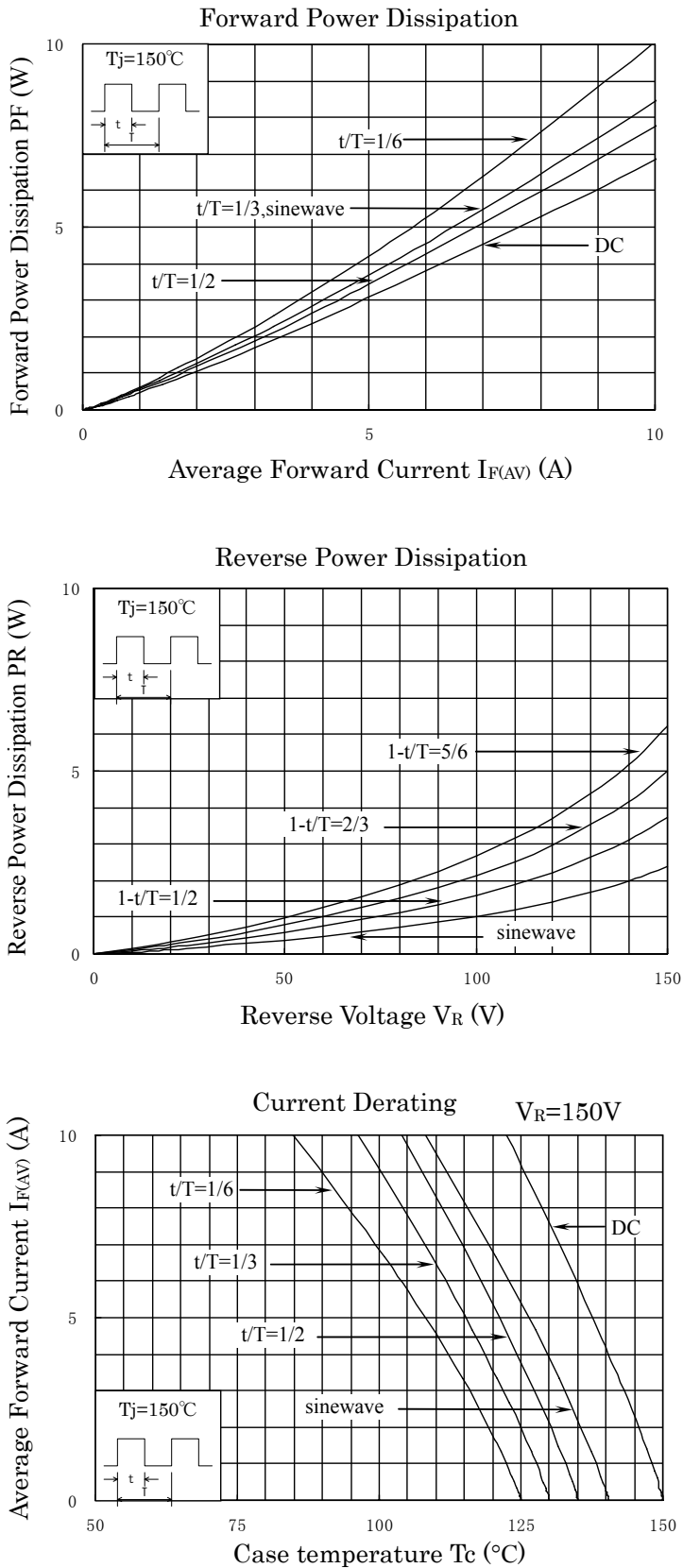
| No. | Parameter | Symbol | Unit | Rating | Conditions |
|-----|--|---------------|---------------|-----------|--------------------------------|
| 1 | Forward Voltage Drop | V_F | V | 0.90 max. | $I_F=5.0A$ |
| 2 | Reverse Leakage Current | I_R | μA | 100 max. | $V_R=V_{RM}$ |
| 3 | Reverse Leakage Current Under High Temperature | $H \cdot I_R$ | mA | 25 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.

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★ Characteristics



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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 Headquarters

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

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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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