查询FMEN-220A供应商 Schottky Barrier Diode FMEN-220A

捷多邦,专业PCB打样工厂,24小时加急出

SanKen

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	100
$V_{\rm F}$	V	0.85	I _F =10A
I _{F(AV)}	А	20	2 W **



IF-VF Charcteristics VR-IR Characteristics 1.0E+02 1.0E-01 1.0E-02 1.0E+01 Гi=100° 1.0E-03 1.0E+00 IF (A) $\stackrel{\widehat{\textcircled{e}}}{\cong} 1.0\text{E-04}$ 1.0E-01 1.0E-05 Tj=150℃ 1.0E-02 1.0E-06 Tj=25℃ 1.0E-03 1.0E-07 0.5 0 1 1.5 0 10 20 30 40 50 60 70 80 90 100 VF (V) VR (V)

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	Average Forward Current	I _{F(AV)}	А	20	
4	Peak Surge Forward Current	I _{FSM}	А	120	Half sinewave, one shot
5	I ² t Limiting Value	I ² t	A ² s	72	1 msec \leq t \leq 10 msec
6	Junction Temperature	Tj	°C	-40 to +150	
7	Storage Temperature	T _{stg}	°C	-40 to +150	

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

No.	Parameter	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	\mathbf{V}_{F}	V	0.85 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	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

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

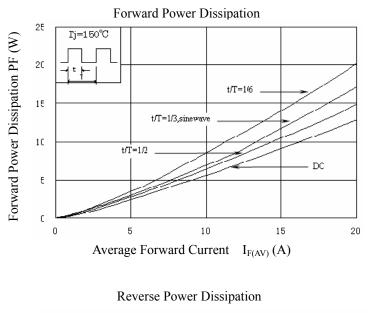
No.1,2,&3 show characteristics per one chip.

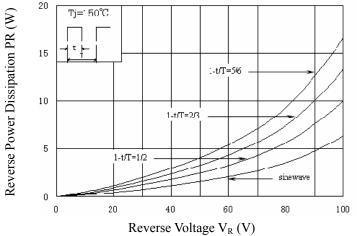


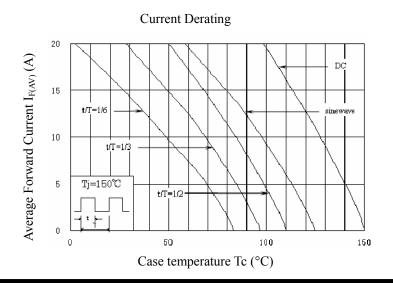


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***** Characteristics



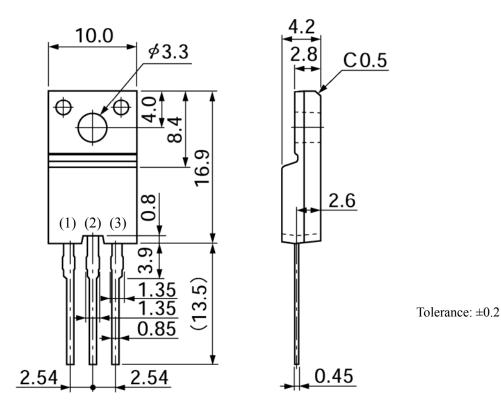




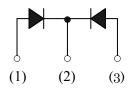




***** External Dimensions (Unit: mm)



***** 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

<u>India</u>

Saket Devices Pvt. Ltd. Office No.25, 2nd Floor, Bandal - Dhankude Plaza, Near PMT Depot, Paud Road, Kothrud, Pune - 411 038, India Tel: 91-20-5621-2340 Fax: 91-20-2528-5459

<u>Japan</u>

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

<u>Korea</u>

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

<u>Taiwan</u>

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

Sanken Electric Co.,Ltd.

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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

Allegro MicroSystems Europe Limited Balfour House, Churchfield Road, Walton-on-Thames, Surrey KT12 2TD, U.K. Tel: 44-1932-253355 Fax: 44-1932-246622

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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