

HRW0202B

Silicon Schottky Barrier Diode for Rectifying

REJ03G0153-0200Z
(Previous: ADE-208-345A)
Rev.2.00
Dec.15.2003

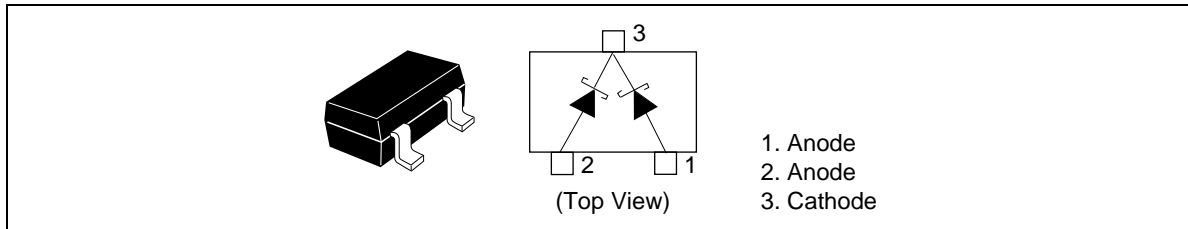
Features

- Low forward voltage drop and suitable for high efficiency rectifying.
- MPAK Package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HRW0202B	S18	MPAK

Pin Arrangement



Absolute Maximum Ratings ^{*1}

(T_a = 25°C)

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V _{RMM} ^{*2}	20	V
Average rectified current	I _O ^{*2}	200	mA
Non-Repetitive peak forward surge current	I _{FSM} ^{*3}	3	A
Junction temperature	T _J	125	°C
Storage temperature	T _{stg}	-55 to +125	°C

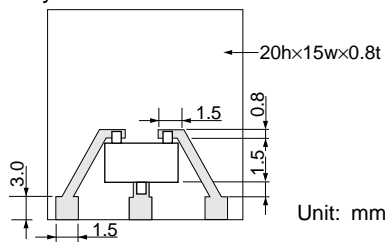
- Notes: 1. Two device total
 2. See from Fig.4 to Fig.7
 3. 10ms sine wave 1 pulse

Electrical Characteristics ^{*1}

(T_a = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V _F	—	—	0.42	V	I _F = 100 mA
Reverse current	I _R	—	—	10	μA	V _R = 20 V
Thermal resistance	R _{th(j-a)}	—	400	—	°C/W	Polyimide board ^{*2}

- Notes: 1. Per one device
 2. Polyimide board



Main Characteristic

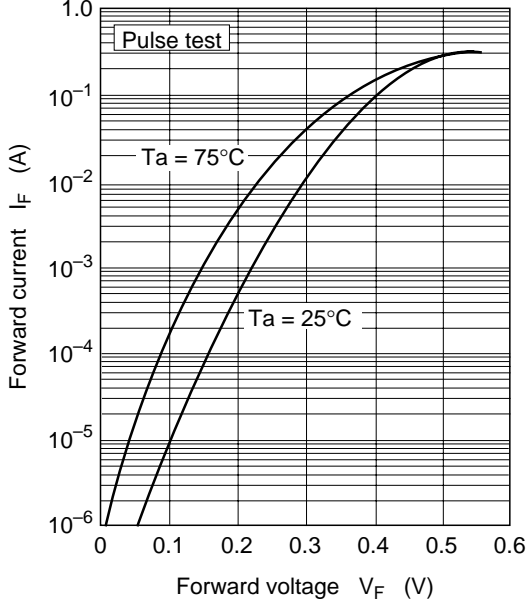


Fig.1 Forward current vs. Forward voltage

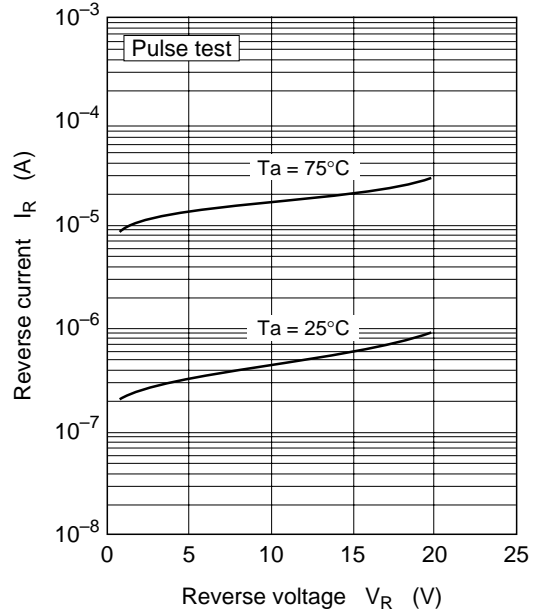


Fig.2 Reverse current vs. Reverse voltage

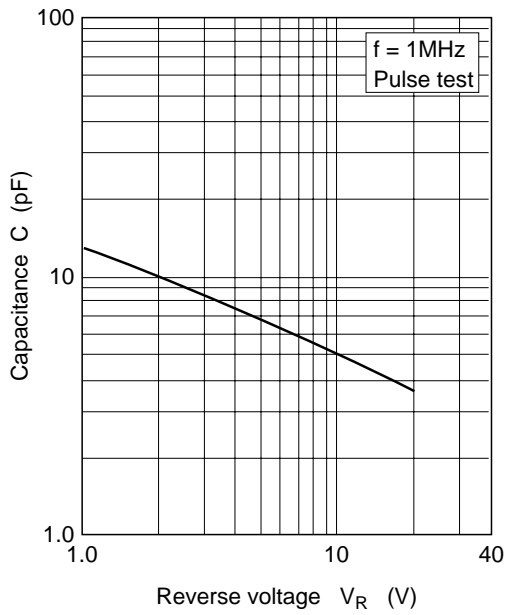


Fig3. Capacitance vs. Reverse voltage

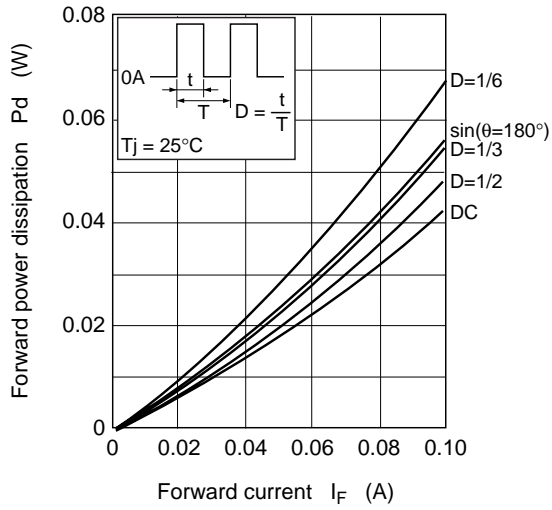


Fig.4 Forward power dissipation vs. Forward current

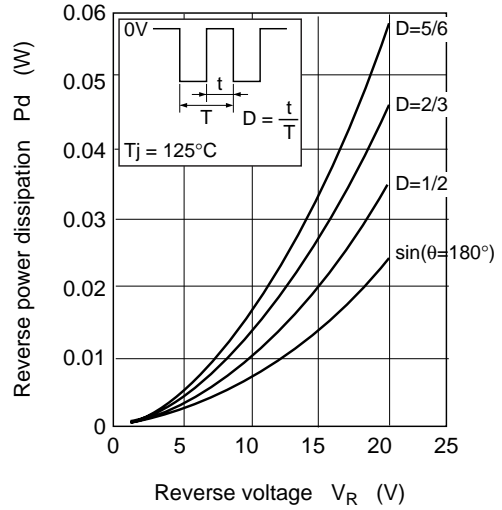


Fig.5 Reverse power dissipation vs. Reverse voltage

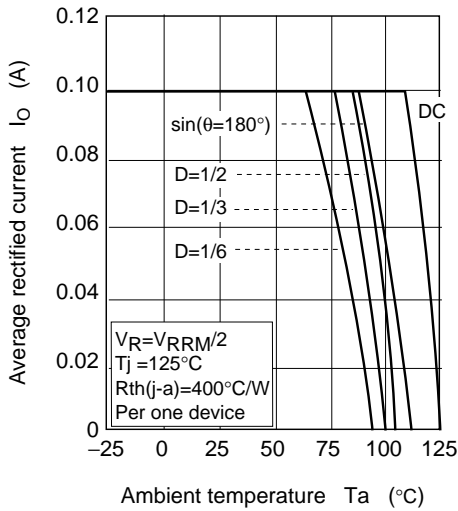


Fig.6 Average rectified current vs. Ambient temperature

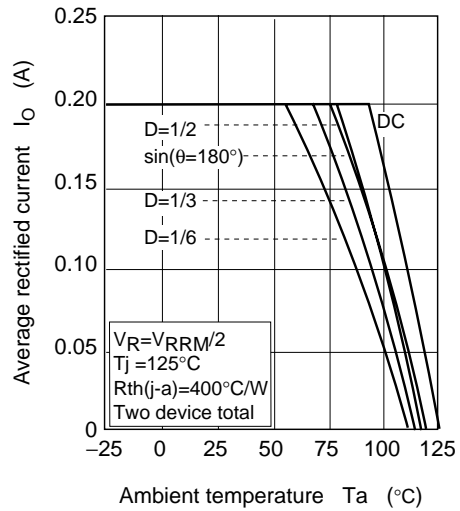
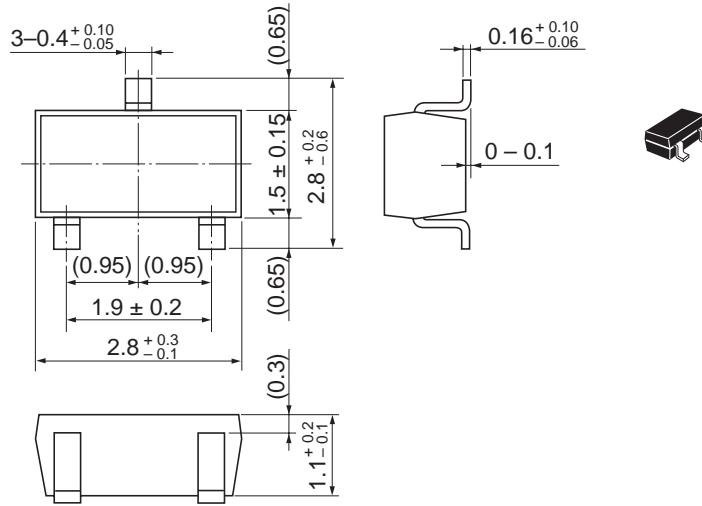


Fig.7 Average rectified current vs. Ambient temperature

Package Dimensions

As of January, 2003
Unit: mm



Package Code	MPAK
JEDEC	—
JEITA	Conforms
Mass (reference value)	0.011 g

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Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, United Kingdom
Tel: <44> (1628) 585 100, Fax: <44> (1628) 585 900

Renesas Technology Europe GmbH
Dornacher Str. 3, D-85622 Feldkirchen, Germany
Tel: <49> (89) 380 70 0, Fax: <49> (89) 929 30 11

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26/F., Ruijin Building, No.205 Maoming Road (S), Shanghai 200020, China
Tel: <86> (21) 6472-1001, Fax: <86> (21) 6415-2952

Renesas Technology Singapore Pte. Ltd.
1, Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632
Tel: <65> 6213-0200, Fax: <65> 6278-8001