

# **HRC0201A**

## Silicon Schottky Barrier Diode for Rectifying

REJ03G0618-0100

(Previous: ADE-208-1559)

Rev.1.00 May 17, 2005

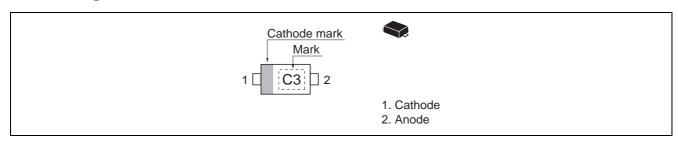
### **Features**

- Low forward voltage drop and suitable for high efficiency rectifying.
- Ultra small Flat Lead Package (UFP) is suitable for surface mount design.

### **Ordering Information**

Type No.	Laser Mark	Package Name	Package Code (Previous Code)
HRC0201A	C3	UFP	PWSF0002ZA-A
			(UFP)

### **Pin Arrangement**



## **Absolute Maximum Ratings**

 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub> * <sup>1</sup>	15	V
Reverse voltage	V <sub>R</sub>	15	V
Average rectified current	lo *1	200	mA
Peak forward current	I <sub>FM</sub>	300	mA
Non-Repetitive peak forward surge current	I <sub>FSM</sub> * <sup>2</sup>	1	А
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Notes: 1. See from Fig.4 to Fig.6, with polyimide board.

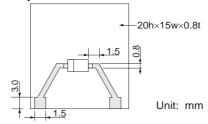
2. 10 ms sine wave 1 pulse.

### **Electrical Characteristics**

 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V <sub>F</sub>	_	_	0.39	V	I <sub>F</sub> = 200 mA
Reverse current	I <sub>R</sub>	_	_	50	μΑ	V <sub>R</sub> = 6 V
Capacitance	С	_	18	_	pF	V <sub>R</sub> = 1 V, f = 1 MHz
Thermal resistance	Rth(j-a)	_	600	_	°C/W	Polyimide board *1

Note: 1. Polyimide board



## **Main Characteristic**

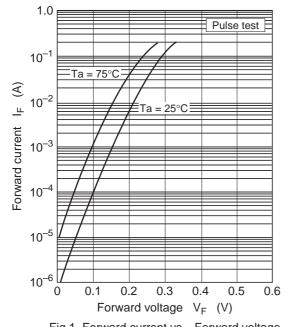


Fig.1 Forward current vs. Forward voltage

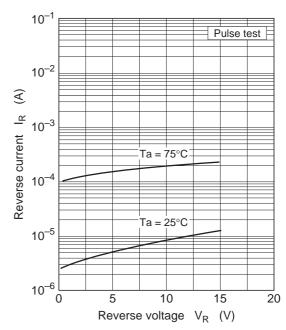
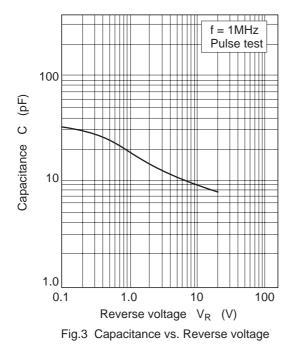
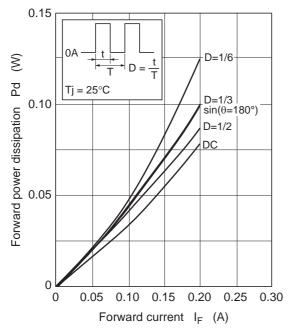


Fig.2 Reverse current vs. Reverse voltage







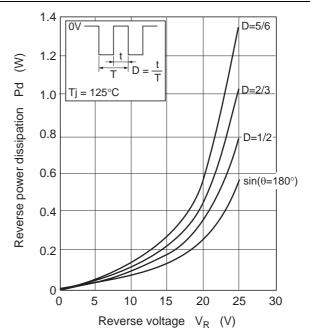
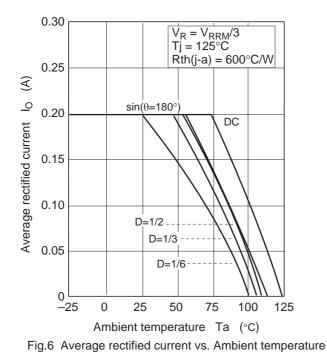
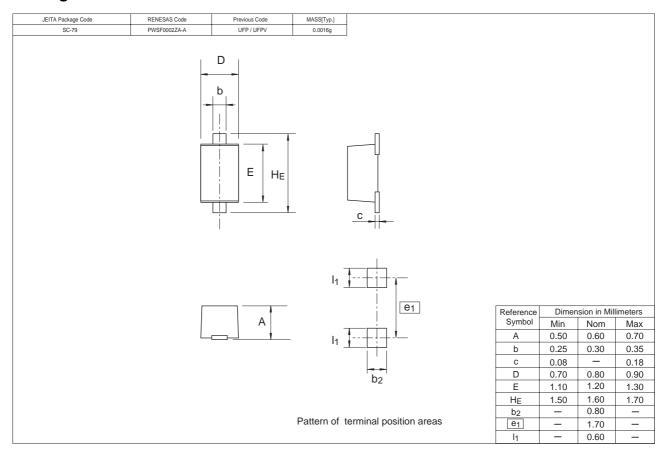


Fig.5 Reverse power dissipation vs. Reverse voltage



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### **Package Dimensions**



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