

# HRC0103A

Silicon Schottky Barrier Diode for Rectifying

REJ03G0146-0100Z  
(Previous: ADE-208-624)  
Rev.1.00  
Nov.26.2003

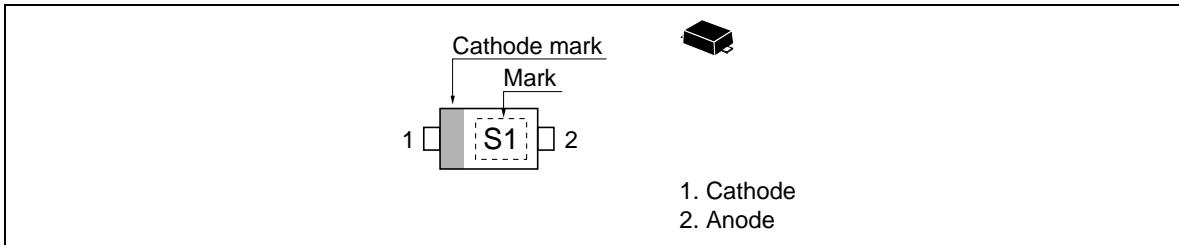
## Features

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

## Ordering Information

Type No.	Laser Mark	Package Code
HRC0103A	S1	UFP

## Pin Arrangement



**Absolute Maximum Ratings**

(Ta = 25°C)

Item	Symbol	Value	Unit
Repetitive Peak reverse voltage	V <sub>RRM</sub> <sup>*1</sup>	30	V
Average rectified current	I <sub>o</sub> <sup>*1</sup>	100	mA
Non-Repetitive peak forward surge current	I <sub>FSM</sub> <sup>*2</sup>	3	A
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	−55 to +125	°C

Notes: 1. See from Fig.3 to Fig.5.

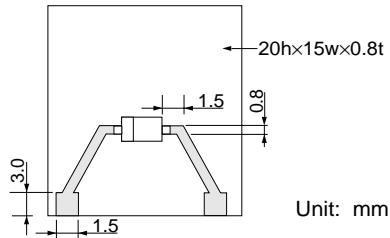
2. 10 ms sine wave 1 pulse.

**Electrical Characteristics**

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V <sub>F</sub>	—	—	0.44	V	I <sub>F</sub> = 100 mA
Reverse current	I <sub>R</sub>	—	—	50	μA	V <sub>R</sub> = 30 V
Thermal resistance	R <sub>th(j-a)</sub>	—	500	—	°C/W	Polyimide board <sup>*1</sup>

Note: 1. Polyimide board



## Main Characteristics

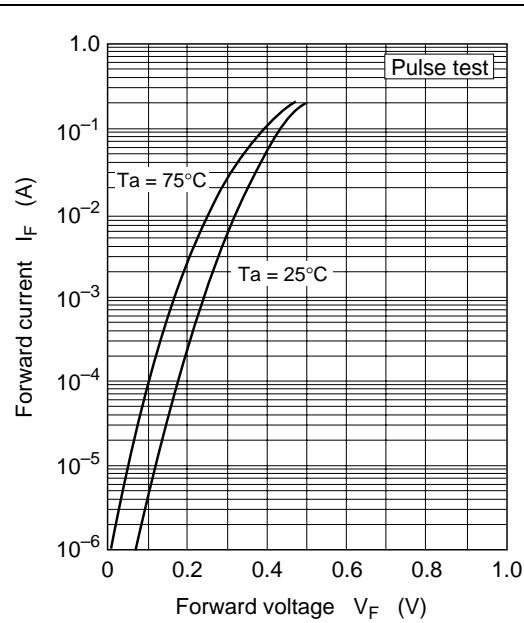


Fig.1 Forward current vs. Forward voltage

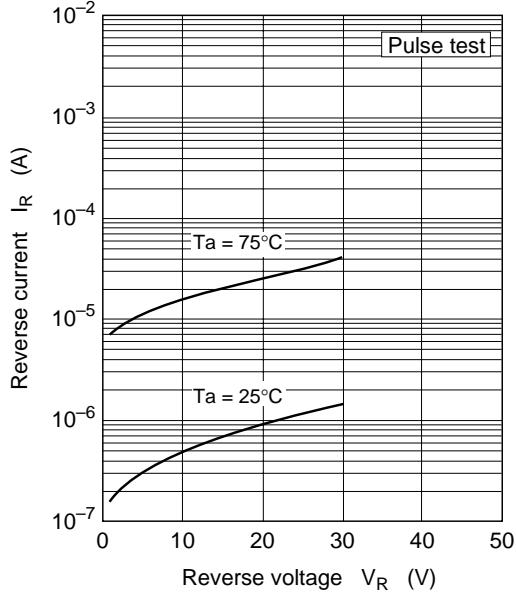


Fig.2 Reverse current vs. Reverse voltage

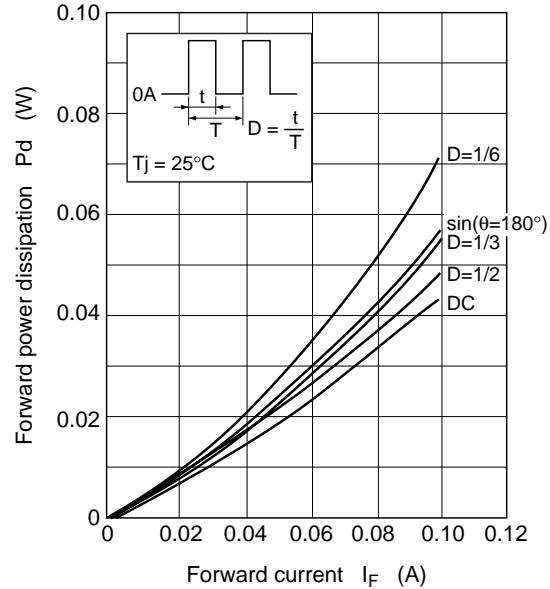


Fig.3. Forward power dissipation vs. Forward current

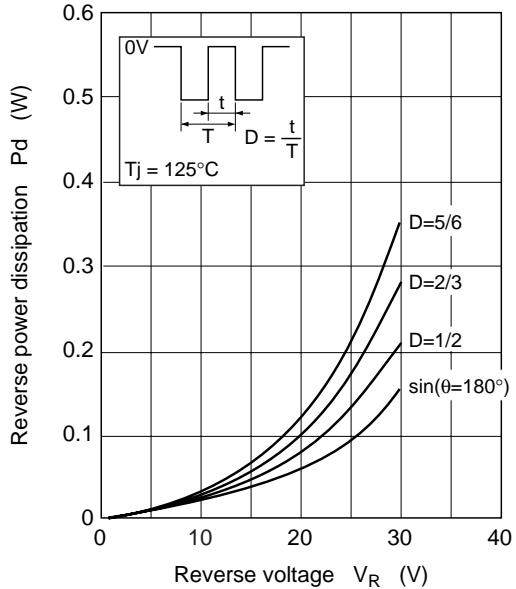


Fig.4. Reverse power dissipation vs. Reverse voltage

## HRC0103A

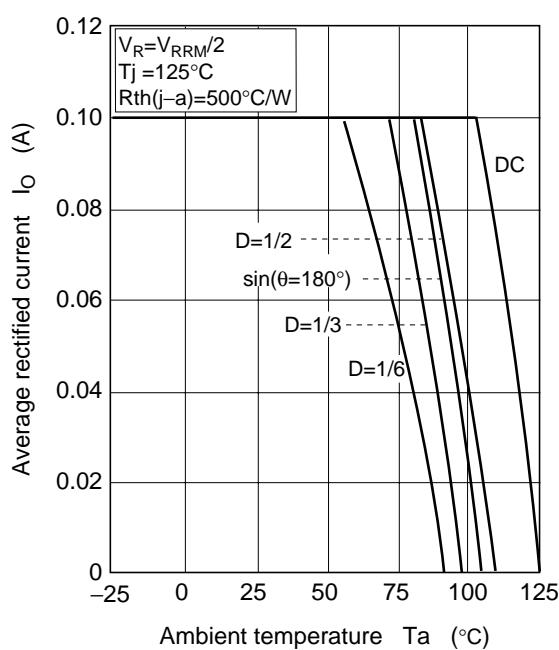
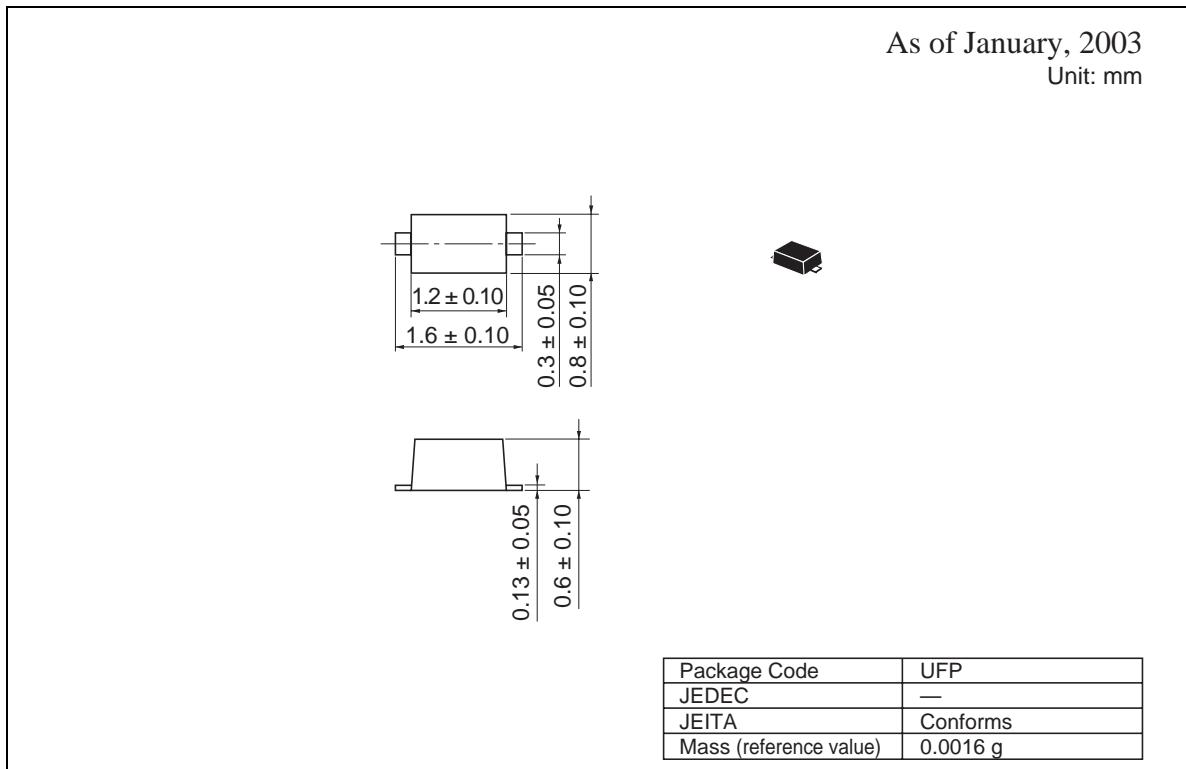


Fig.5 Average rectified current vs. Ambient temperature

## HRC0103A

### Package Dimensions



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