

# HRU0203A

Silicon Schottky Barrier Diode for Rectifying

# HITACHI

ADE-208-469B (Z)

Rev 2

Oct. 1997

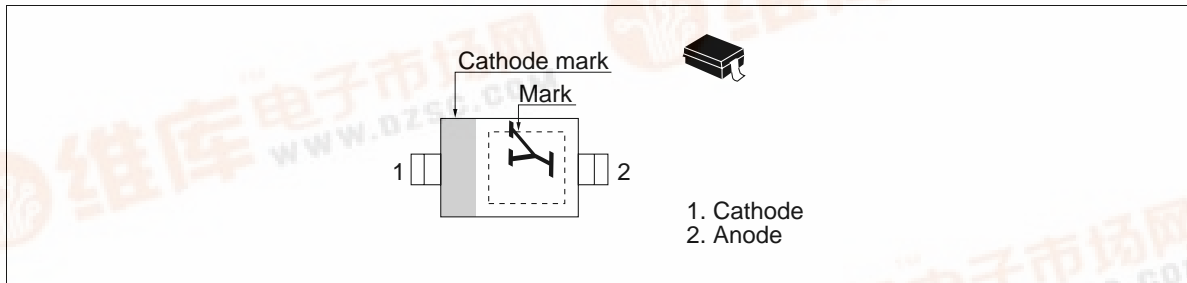
## Features

- Low forward voltage drop and suitable for high efficiency rectifying.
- Ultra small Resin Package (URP) is suitable for high density surface mounting and high speed assembly.

## Ordering Information

Type No.	Laser Mark	Package Code
HRU0203A	Y	URP

## Outline



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## HRU0203A

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### Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	$V_{RRM}^{*1}$	30	V
Average rectified current	$I_o^{*1}$	200	mA
Non-Repetitive peak forward surge current	$I_{FSM}^{*2}$	2	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55~+125	°C

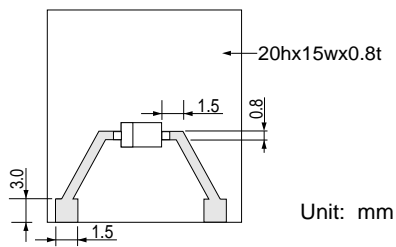
Note 1. See from Fig.3 to Fig.5

Note 2. 10msec sine wave 1 pulse

### Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	$V_F$	—	—	0.50	V	$I_F = 200 \text{ mA}$
Reverse current	$I_R$	—	—	50	$\mu\text{A}$	$V_R = 30\text{V}$
Thermal resistance	$R_{th(j-a)}$	—	520	—	°C/W	Polyimide board <sup>*1</sup>

Note 1. Polyimide board



Main Characteristic

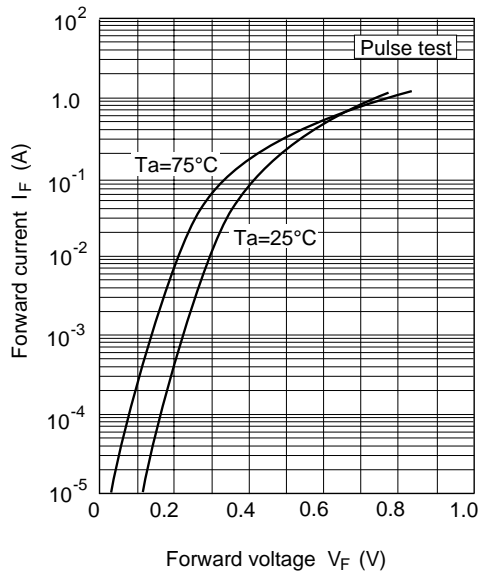


Fig.1 Forward current Vs. Forward voltage

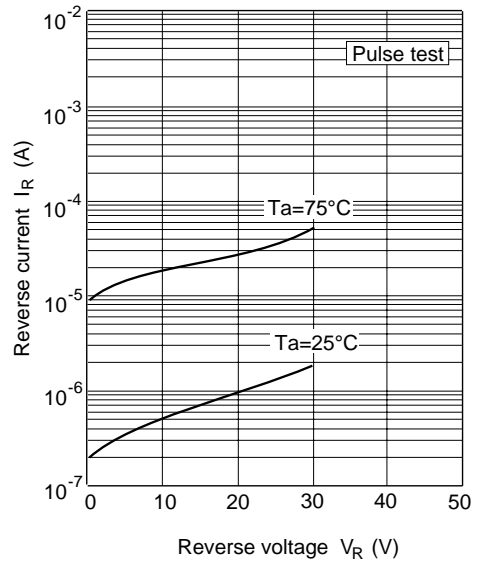


Fig.2 Reverse current Vs. Reverse voltage

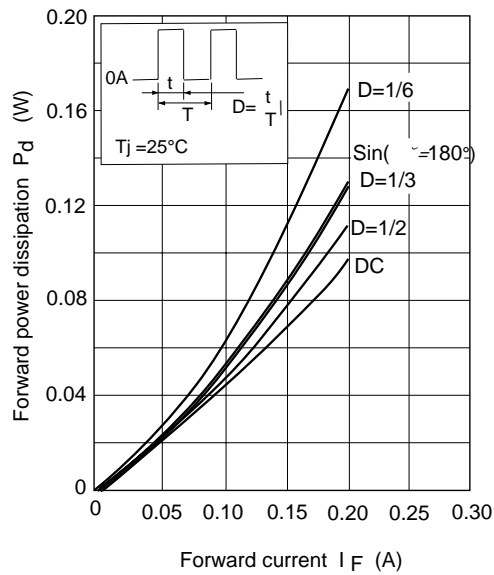


Fig.3 Forward power dissipation Vs. Forward current

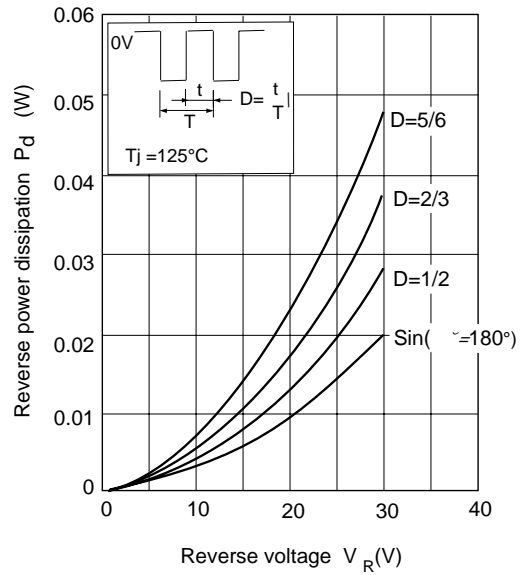


Fig.4 Reverse power dissipation Vs. Reverse voltage

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# HRU0203A

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## Main Characteristic

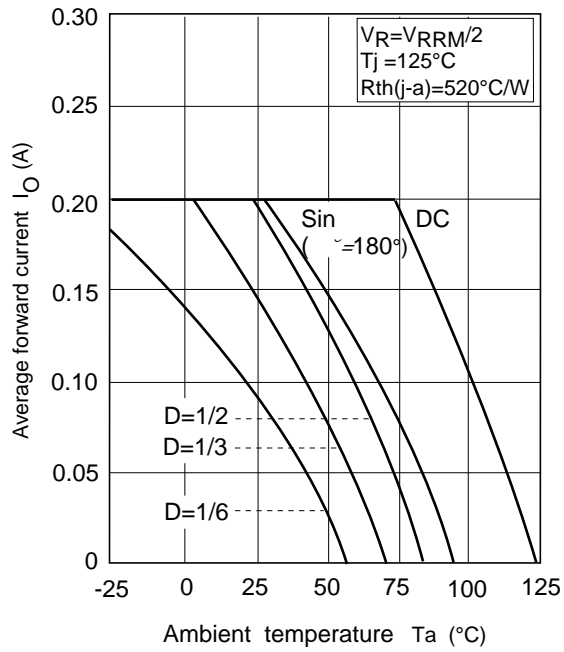
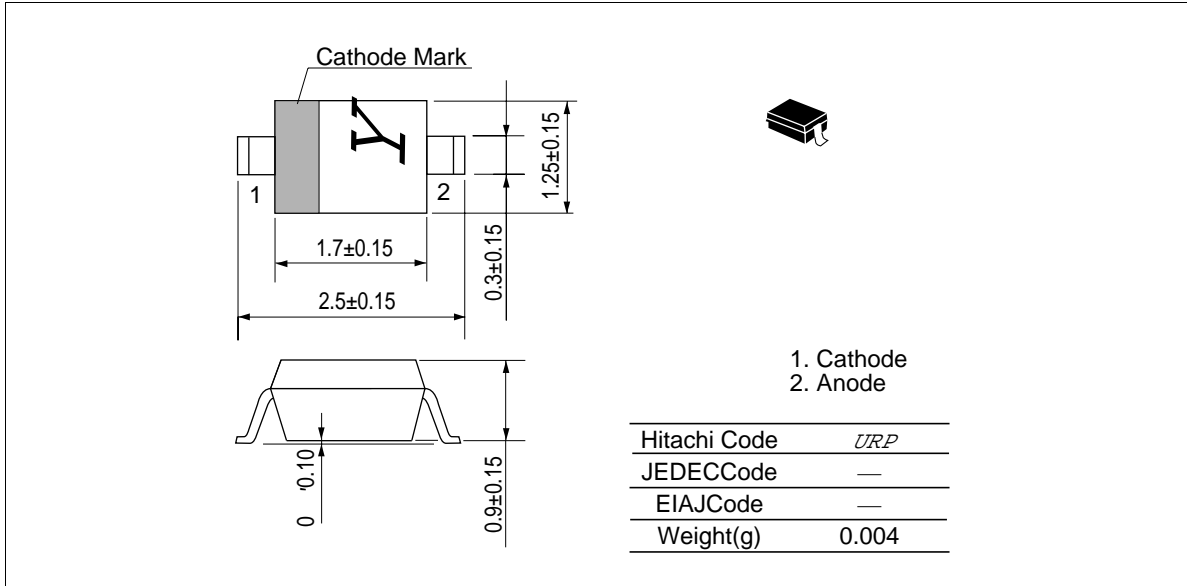


Fig.5 Average forward current Vs. Ambient temperature

**Package Dimensions**

Unit : mm



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