

# **HRU0103C**

# Silicon Schottky Barrier Diode for Rectifying

REJ03G0071-0200 Rev.2.00 Apr 08, 2008

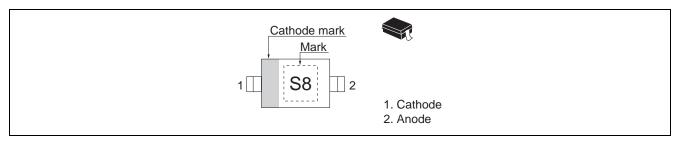
### **Features**

- Low reverse voltage drop and suitable for high efficiency reverse current.
- Ultra small Resin Package (URP) is suitable for surface mount design.

# **Ordering Information**

Part No.	Laser Mark	Package Name	Package Code
HRU0103C	S8	URP	PTSP0002ZA-A

# **Pin Arrangement**



# **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Peak reverse voltage	V <sub>RM</sub> * <sup>1</sup>	30	V
Reverse voltage	$V_R$	30	V
Average rectified current	lo *1	100	mA
Peak forward surge current	I <sub>FM</sub>	300	mA
Non-Repetitive peak forward surge current	I <sub>FSM</sub> * <sup>2</sup>	1	Α
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

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

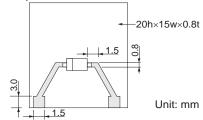
2. 10 ms sine wave 1 pulse.

## **Electrical Characteristics**

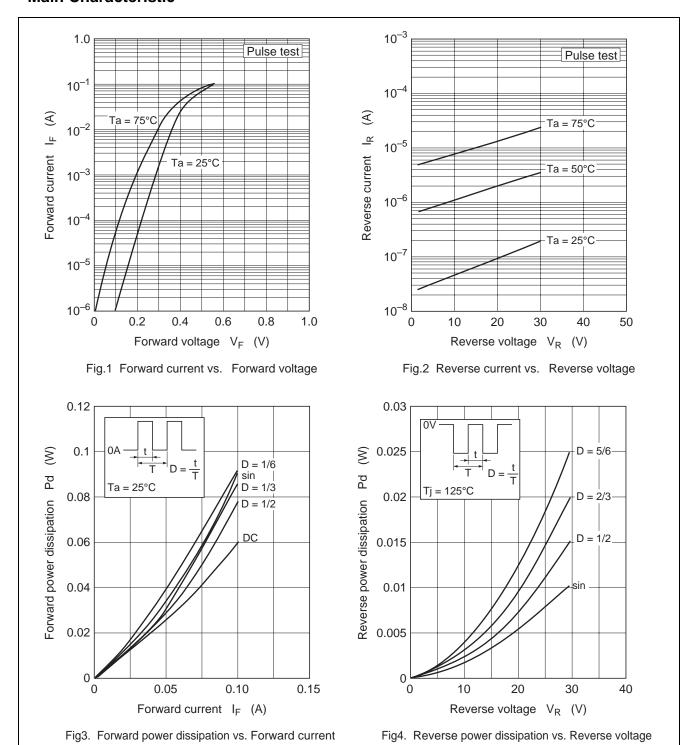
 $(Ta = 25^{\circ}C)$ 

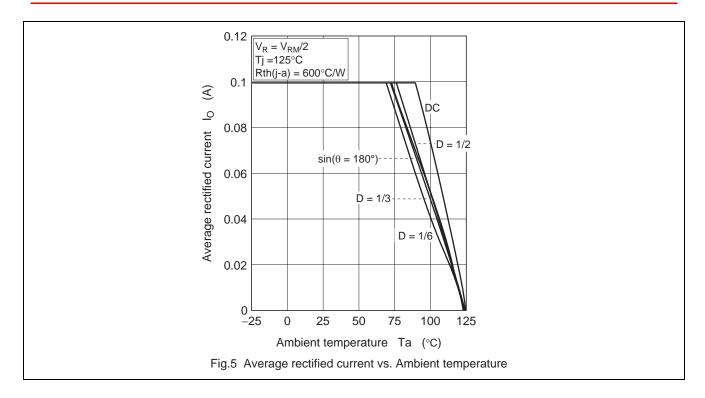
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V <sub>F1</sub>	_	_	0.40	V	I <sub>F</sub> = 10 mA
	V <sub>F2</sub>	_	_	0.60	V	I <sub>F</sub> = 100 mA
Reverse current	I <sub>R1</sub>	_	_	0.1	μΑ	V <sub>R</sub> = 5 V
	I <sub>R2</sub>	_	_	0.2		V <sub>R</sub> = 10 V
Capacitance	С	_	_	8.0	pF	V <sub>R</sub> = 0.5 V, f = 1 MHz
Thermal resistance	Rth(j-a)	_	600	_	°C/W	Polyimide board *1

Note: 1. Polyimide board

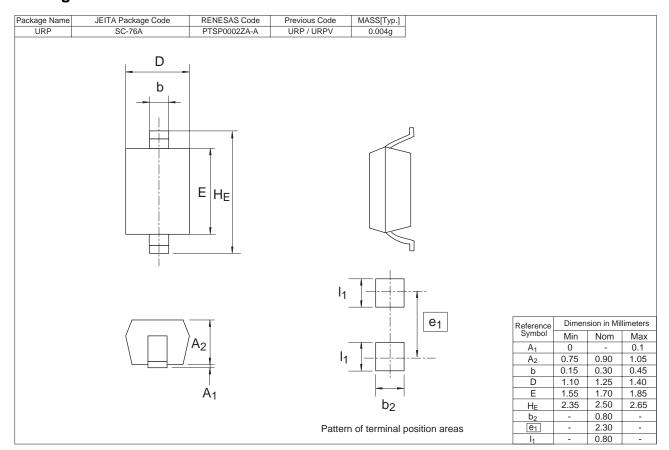


## **Main Characteristic**





# **Package Dimensions**



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