# Old Company Name in Catalogs and Other Documents

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Renesas Electronics website: http://www.renesas.com

April 1<sup>st</sup>, 2010 Renesas Electronics Corporation

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# RKD703KJ

Silicon Schottky Barrier Diode for High Speed Switching

REJ03G1898-0100 Rev.1.00 Feb 25, 2010

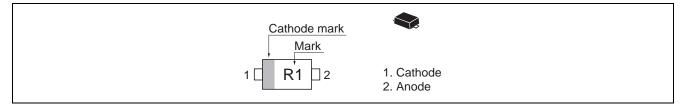
### Features

- Low Power consumption (Low reverse leak current) and high speed (Low capacitance).
- We can support the lineup of environmental friendly halogen free type on your demand.
- Ultra small Flat Lead Package (UFP) is suitable for compact and high-density surface mount design.

### **Ordering Information**

Part No	Laser Mark	Package Name	Package Code	Taping Abbreviation (Quantity)
RKD703KJ P RKD703KJ R	R1	UFP	PWSF0002ZA-A	P (4,000 pcs / reel) R (8,000 pcs / reel)

### Pin Arrangement



# **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>	30	V
Average rectified current	I <sub>0</sub> * <sup>1</sup>	100	mA
Non-Repetitive peak forward surge current	I <sub>FSM</sub> * <sup>2</sup>	200	mA
Junction temperature	Тј	125	°C
Storage temperature	Tstg	-55 to +125	°C

Notes: 1. See from Fig.4 to Fig.6.

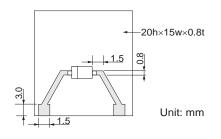
2. 10 ms sine wave 1 pulse.

### **Electrical Characteristics**

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

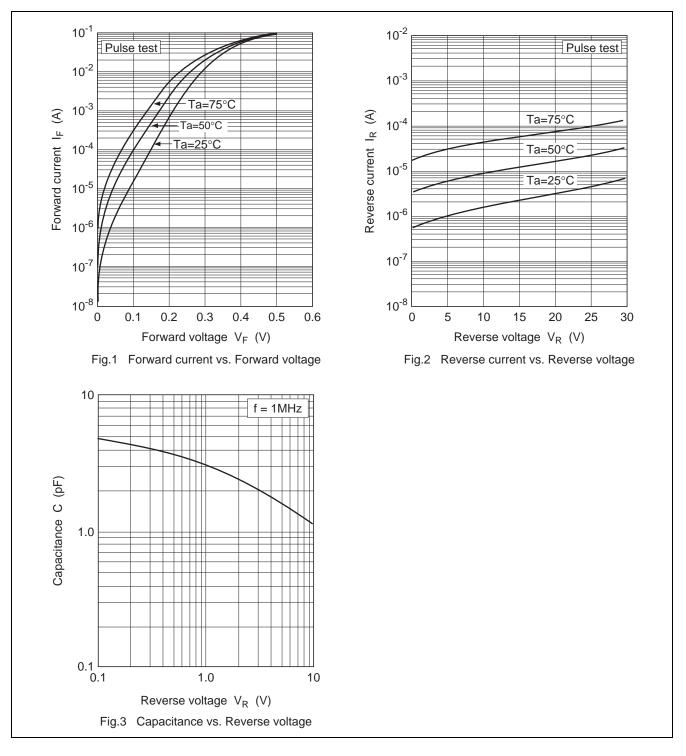
ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V <sub>F1</sub>	_	—	0.25	V	I <sub>F</sub> = 1 mA
	V <sub>F2</sub>	_	—	0.30	V	$I_F = 5 \text{ mA}$
	V <sub>F3</sub>	_	—	0.35	V	I <sub>F</sub> = 20 mA
	V <sub>F4</sub>	_	—	0.60	V	I <sub>F</sub> = 100 mA
Reverse current	I <sub>R1</sub>		—	6	μA	V <sub>R</sub> =10 V
	I <sub>R2</sub>	_	—	50	μΑ	V <sub>R</sub> = 30 V
Capacitance	С	_	_	5	pF	$V_R = 1 V, f = 1 MHz$
Thermal resistance	Rth <j-a></j-a>	_	600	—	°C/W	Polyimide board *1

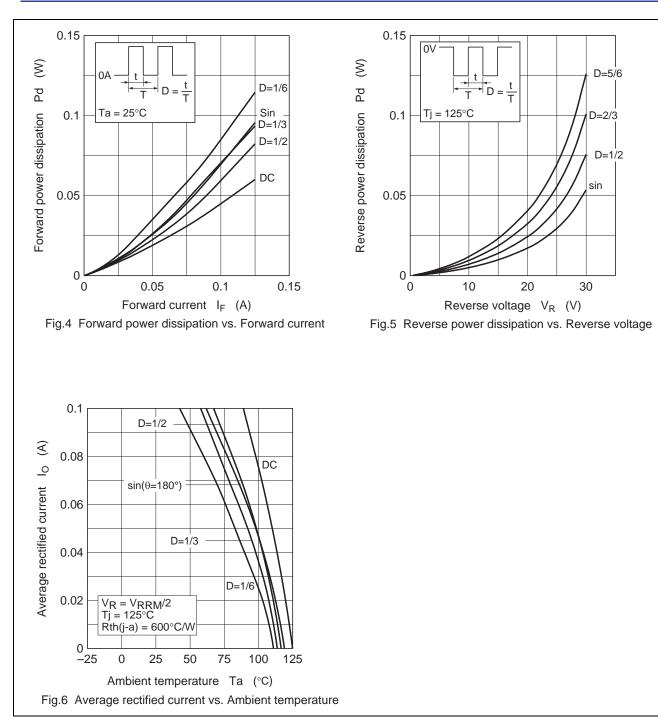
Notes: 1. Polyimide board



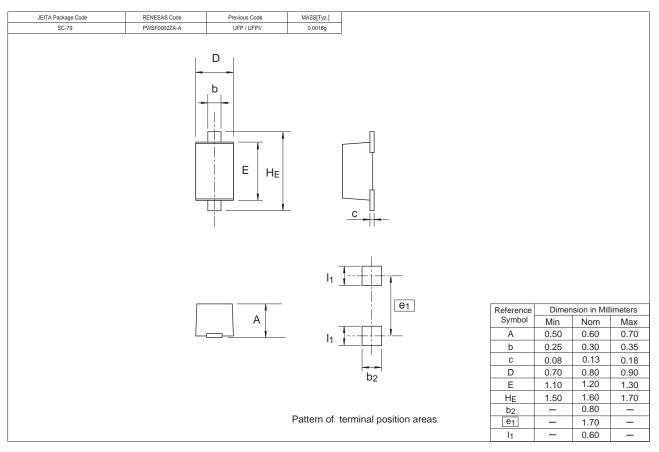
2. In the UFP package, some lead is exposed because the tip of the lead is used as the cutting plane. Therefore, the solderability of the lead tip has been ignored. Please test and confirm before use.

### **Main Characteristics**





## **Package Dimensions**



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