

# RKD703KK

Silicon Schottky Barrier Diode for High Speed Switching

REJ03G1833-0200 Rev.2.00 Nov 20, 2009

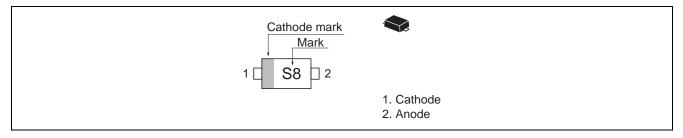
# Features

- 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.
- Extremely small Flat Lead Package (SFP) is suitable for compact and high-density surface mount design.

# **Ordering Information**

Part No	Laser Mark	Package Name	Package Code	Taping Abbreviation (Quantity)	
RKD703KK R	S8	SFP	PUSF0002ZB-A	R (8,000 pcs / reel)	

# **Pin Arrangement**



# **Absolute Maximum Ratings**

### $(Ta = 25^{\circ}C)$ Symbol Value Unit Item Repetitive peak reverse voltage $V_{\text{RRM}}$ 30 V $I_0^{*1}$ Average forward current 100 mΑ I<sub>FSM</sub> \*2 Non-Repetitive Peak forward surge current 200 mΑ Тj 125 °C Junction temperature °C -55 to +125 Storage temperature Tstg

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

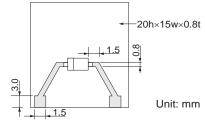
2. 10 ms sine wave 1 pulse.

# **Electrical Characteristics**

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

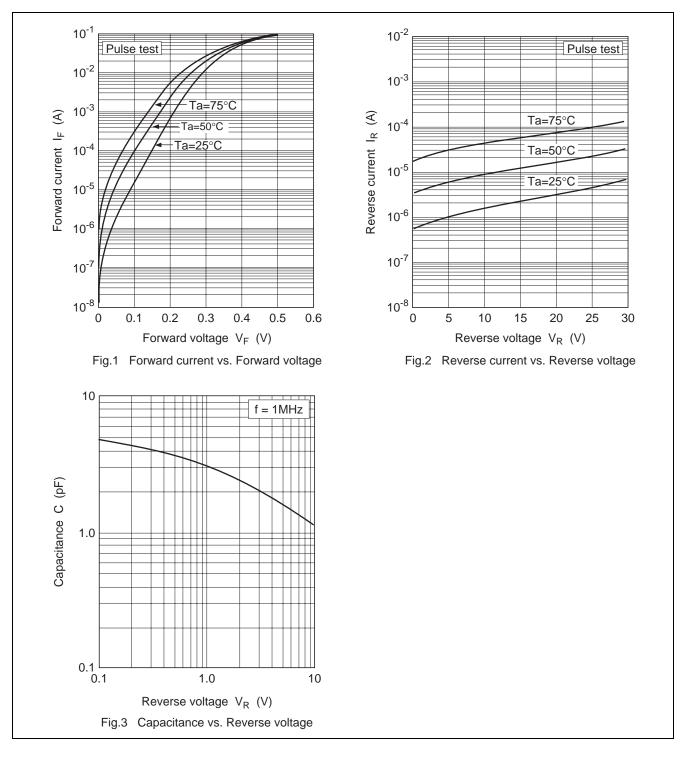
ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	$V_{F1}$	_	—	0.25	V	$I_F = 1 \text{ mA}$
	V <sub>F2</sub>	_	—	0.30	V	$I_F = 5 \text{ mA}$
	V <sub>F3</sub>	_	—	0.35	V	I <sub>F</sub> = 20 mA
	V <sub>F4</sub>	_	—	0.60	V	I <sub>F</sub> = 100 mA
Reverse current	I <sub>R1</sub>	_	—	6	μΑ	V <sub>R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

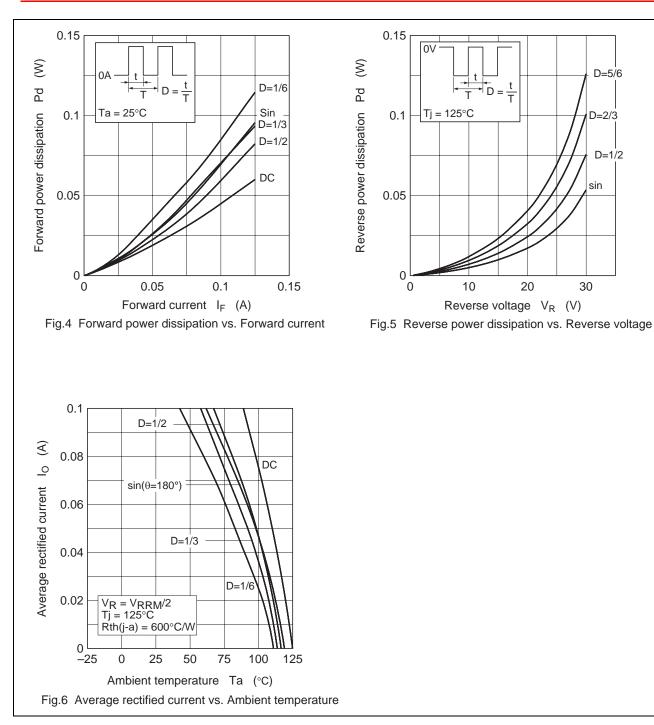
Notes: 1. Polyimide board



2. In the SFP 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.

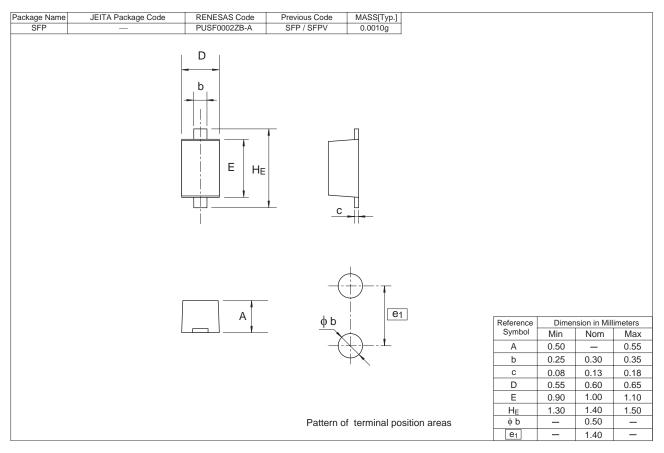
# **Main Characteristics**





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# **Package Dimensions**



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  Pines
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