

RKR0503BKH

Silicon Schottky Barrier Diode for Rectifying

REJ03G1741-0100 Rev.1.00 Nov 17, 2008

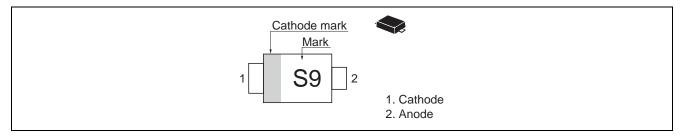
Features

- Low reverse current drop and suitable for high efficiency rectifying.
- Thin Ultra small Resin Package (TURP) is suitable for compact and high-density surface mount design.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code
RKR0503BKH	S9	TURP	PUSF0002ZC-A

Pin Arrangement



Absolute Maximum Ratings

			(Ta = 25°C)
Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V _{RRM}	30	V
Reverse voltage	V _R	30	V
Average rectified current	lo * ¹ * ²	0.5	А
Non-Repetitive peak forward surge current	I _{FSM} * ³	1	А
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Notes: 1. See from Fig.6 with Glass epoxy board.

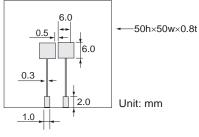
- 2. Ta = 63°C, With Glass epoxy board (board size: 50 mm \times 50 mm, Land size 6 mm \times 6 mm) Short form wave (θ 180°C), V_R = 15 V.
- 3. 10 ms sine wave 1 pulse.

Electrical Characteristics

(Ta = 25°C)

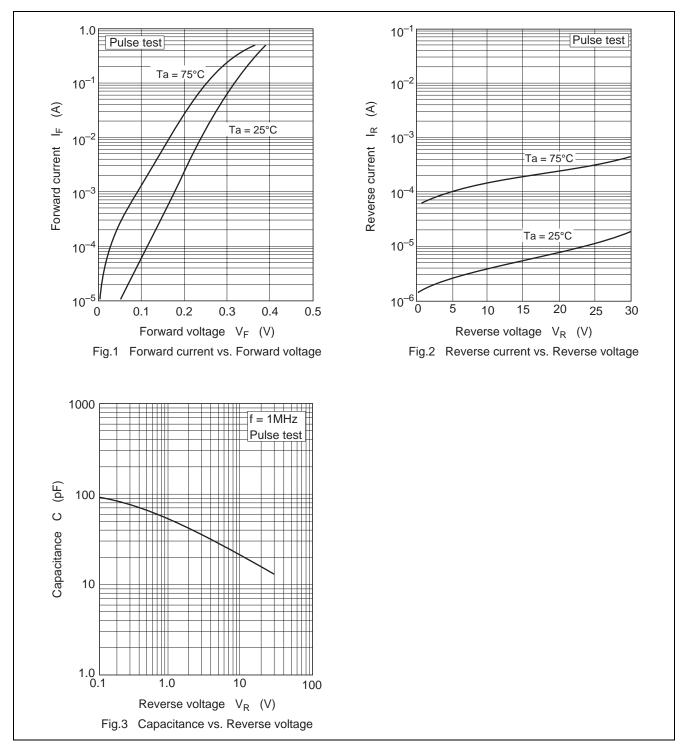
ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _{F1}	_	_	0.34	V	I _F = 100 mA
	V _{F2}			0.44	V	I _F = 500 mA
Reverse current	I _R	_	_	100	μA	V _R = 30 V
Thermal resistance	Rth(j-a)	_	200		°C/W	Glass epoxy board *1

Notes: 1. Glass epoxy board



3. TURP is the structure which radiates heat to a substrate, please perform mounting to a substrate by reflow.

Main Characteristics



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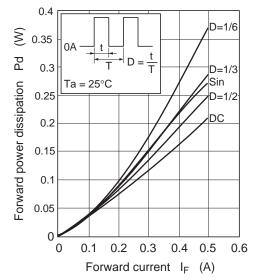


Fig.4 Forward power dissipation vs. Forward current

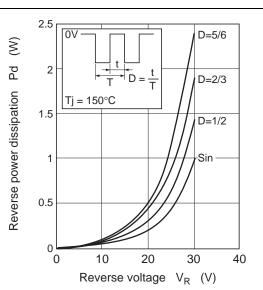
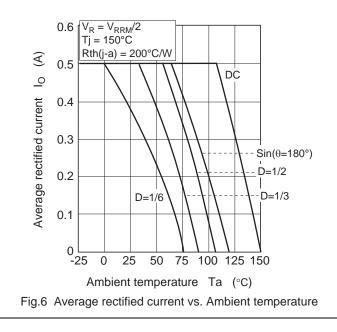
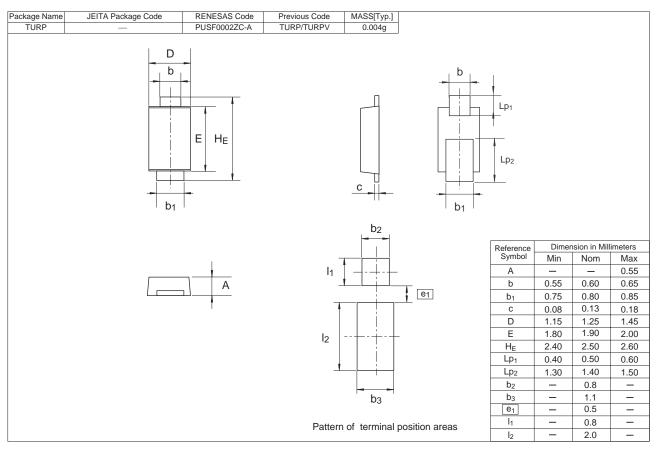


Fig.5 Reverse power dissipation vs. Reverse voltage



Package Dimensions



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