

RKR104BKH

Silicon Schottky Barrier Diode for Rectifying

REJ03G1476-0200 Rev.2.00 Mar 25, 2008

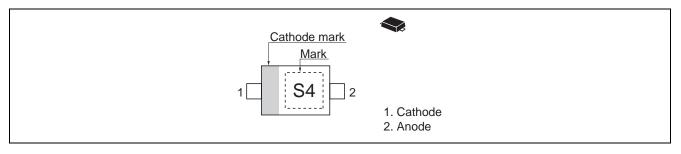
Features

- Low reverse current and suitable for high efficiency rectifying.
- Thin Ultra small Resin Package (TURP) is suitable for high density surface mounting and high speed assembly.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code	
RKR104BKH	S4	TURP	PUSF0002ZC-A	

Pin Arrangement



Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
ltem	Symbol	Value	Unit
Repetitive peak reverse voltage	V _{RRM}	40	V
Reverse voltage	V _R	40	V
Average rectified current	lo * ²	1	А
Non-Repetitive peak forward surge current	I _{FSM} * ¹	5	А
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	۵°C

Notes: 1. 10 ms sine wave 1 pulse

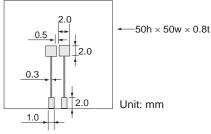
2. Ta = 36°C, With Ceramics board (board size: 50 mm \times 50 mm, Land size 2 mm \times 2 mm) Short form wave (θ 180°C), V_R = 20 V.

Electrical Characteristics

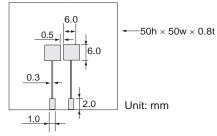
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _{F1}	—	—	0.37	V	I _F = 100 mA
	V _{F2}	—	—	0.55		I _F = 700 mA
Reverse current	I _{R1}	—	—	10	μΑ	V _R = 5 V
	I _{R2}	—	—	50		V _R = 40 V
Capacitance	С	—	—	35	pF	$V_R = 10 V, f = 1 MHz$
Thermal resistance	Rth(j-a)	_	100	—	°C/W	Ceramics board *1
		_	200	_		Glass epoxy board *2

Notes: 1. Ceramics board

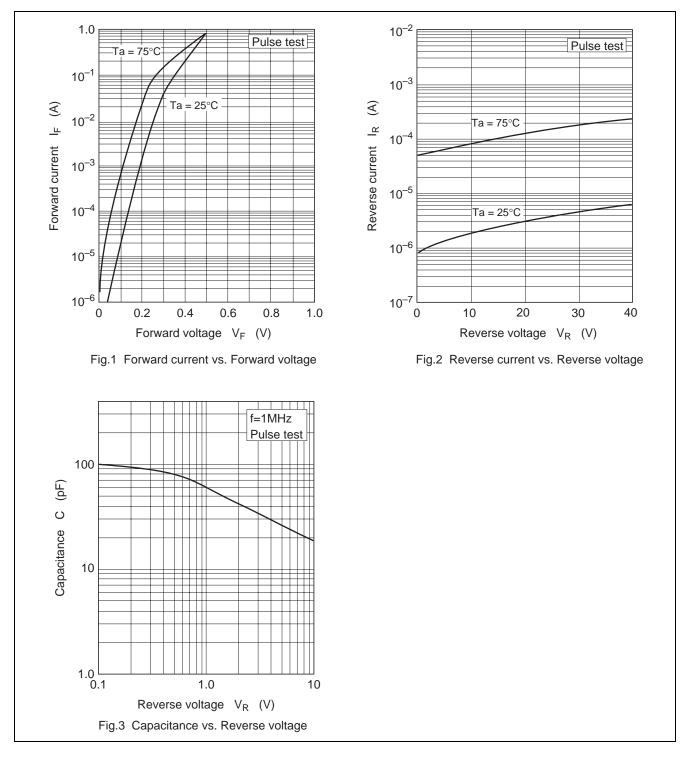


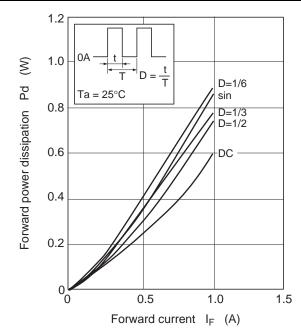
2. Glass epoxy board



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

Main Characteristics





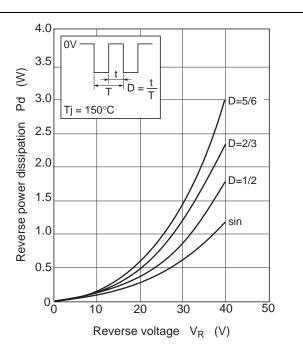


Fig.4 Forward power dissipation vs. Forward current

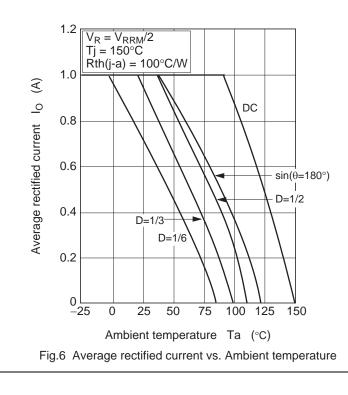
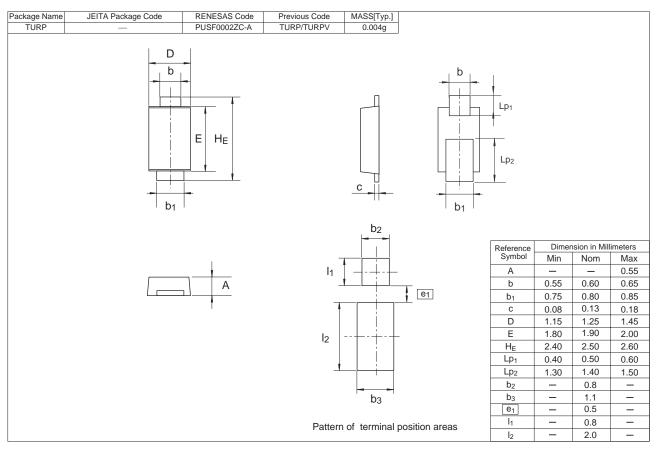


Fig.5 Reverse power dissipation vs. Reverse voltage

Package Dimensions



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