

RKS100KG

Silicon Epitaxial Planar Diode for High Speed Switching

REJ03G1698-0100 Rev.1.00 Jul 03, 2008

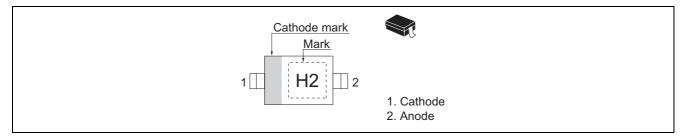
Features

- Low capacitance. (C = 2.0 pF max)
- Short reverse recovery time. ($t_{rr} = 3.0 \text{ ns max}$)
- Ultra small Resin Package (URP) is suitable for high density surface mounting and high speed assembly.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code
RKS100KG	H2	URP	PTSP0002ZA-A

Pin Arrangement

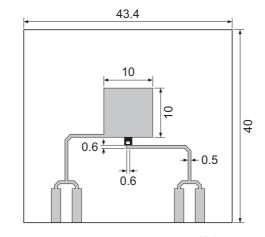


Absolute Maximum Ratings

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			$(Ta = 25^{\circ}C)$
Item	Symbol	Value	Unit
Peak reverse voltage	V _{RM}	85	V
Reverse voltage	V _R	80	V
Forward current	I _F * ¹	200	mA
Non-Repetitive peak forward surge current	I _{FSM} * ²	4	А
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Notes: 1. Forward current with mounting on the board of Figure 1. 2. Within 1 μ s forward surge current.



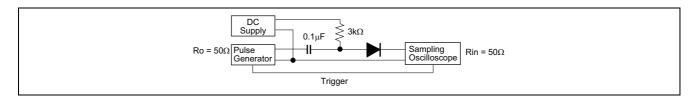
Unit: mm

Figure 1 Board

Electrical Characteristics

						$(Ta = 25^{\circ}C)$
ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _{F1}		—	0.8	V	I _F = 10 mA
	V _{F2}		—	1.2		I _F = 100 mA
Reverse current	I _R		—	0.1	μA	V _R = 80 V
Capacitance	С		—	2.0	pF	$V_R = 0 V$, f = 1 MHz
Reverse recovery time*1	t _{rr}		_	3.0	ns	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}, R_L = 50 \Omega$

Note: 1. Reverse recovery time test circuit

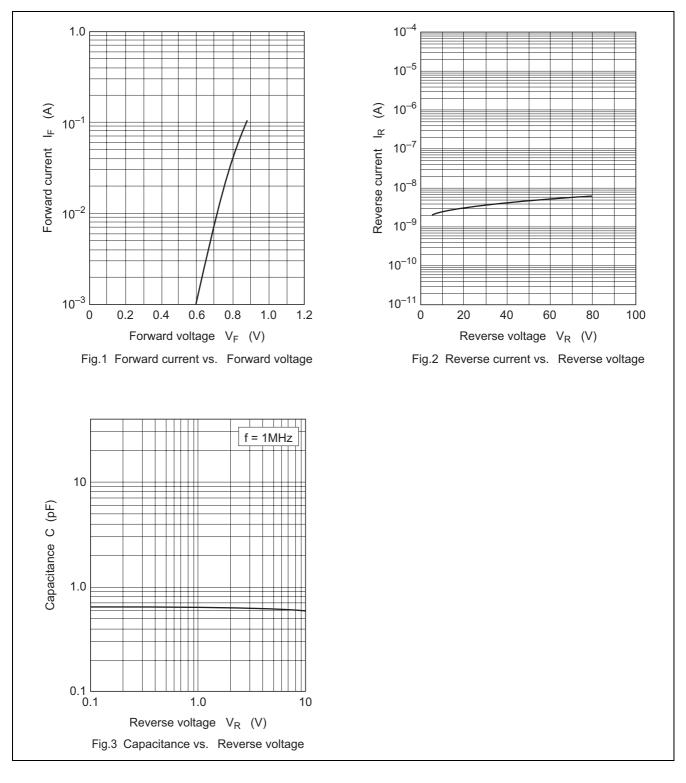




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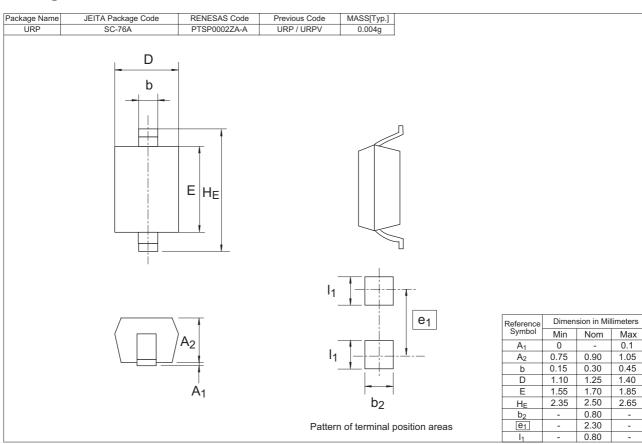
Main Characteristics

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Package Dimensions



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RenesasTechnology Corp. sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan

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Renesas Technology America, Inc.

450 Holger Way, San Jose, CA 95134-1368, U.S.A Tel: <1> (408) 382-7500, Fax: <1> (408) 382-7501

Renesas Technology Europe Limited Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, U.K. Tel: <44> (1628) 585-100, Fax: <44> (1628) 585-900

Renesas Technology (Shanghai) Co., Ltd. Unit 204, 205, AZIACenter, No.1233 Lujiazui Ring Rd, Pudong District, Shanghai, China 200120 Tel: <86> (21) 5877-1818, Fax: <86> (21) 6887-7858/7898

Renesas Technology Hong Kong Ltd. 7th Floor, North Tower, World Finance Centre, Harbour City, Canton Road, Tsimshatsui, Kowloon, Hong Kong Tel: <852> 2265-6688, Fax: <852> 2377-3473

Renesas Technology Taiwan Co., Ltd. 10th Floor, No.99, Fushing North Road, Taipei, Taiwan Tel: <886> (2) 2715-2888, Fax: <886> (2) 3518-3399

Renesas Technology Singapore Pte. Ltd.

1 Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632 Tel: <65> 6213-0200, Fax: <65> 6278-8001

Renesas Technology Korea Co., Ltd. Kukje Center Bldg. 18th Fl., 191, 2-ka, Hangang-ro, Yongsan-ku, Seoul 140-702, Korea Tel: <82> (2) 796-3115, Fax: <82> (2) 796-2145

Renesas Technology Malaysia Sdn. Bhd Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No.18, Jln Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia Tel: <603> 7955-9390, Fax: <603> 7955-9510