

RKZ-KG Series

Silicon Planar Zener Diode for Surge Absorption and Stabilizer

REJ03G1512-0200 Rev.2.00 Jul 31, 2007

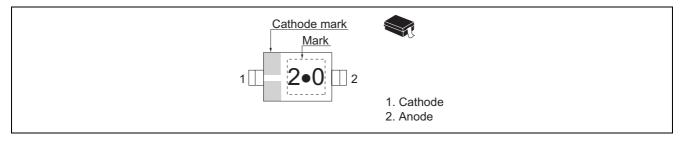
Features

- These diodes are delivered taped.
- Ultra small Resin Package (URP) is suitable for surface mount design.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code
RKZ-KG Series	Let to Mark Code	URP	PTSP0002ZA-A

Pin Arrangement



Absolute Maximum Ratings

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

ltem	Symbol	Value	Unit
Power dissipation	Pd * ¹	200	mW
Junction temperature	Тј	150	°C
Storage temperature	Tstg	-55 to +150	°C

Note: 1. With P.C. Board.

Electrical Characteristics

Zener Volta		age Reverse Current		Dynamic Resistance		ESD-Capability * ²		
			Test		Test	2	Test	
	Vz (V) * ¹	Condition	I _R (μΑ)	Condition	r _d (Ω)	Condition	— (kV) * ²
Part No.	Min	Max	I _z (mA)	Max	V _R (V)	Max	I _z (mA)	Min
RKZ2.0BKG	1.90	2.20	5	120	0.5	100	5	30
RKZ2.2BKG	2.10	2.40	5	120	0.7	100	5	30
RKZ2.4BKG	2.30	2.60	5	120	1.0	100	5	30
RKZ2.7B2KG	2.65	2.90	5	120	1.0	110	5	30
RKZ3.0B2KG	2.95	3.20	5	50	1.0	120	5	30
RKZ3.3B2KG	3.25	3.50	5	20	1.0	130	5	30
RKZ3.6B2KG	3.55	3.80	5	10	1.0	130	5	30
RKZ3.9B2KG	3.87	4.10	5	10	1.0	130	5	30
RKZ4.3B2KG	4.15	4.34	5	10	1.0	130	5	30
RKZ4.7B2KG	4.55	4.75	5	10	1.0	130	5	30
RKZ5.1B2KG	4.98	5.20	5	5	1.5	130	5	30
RKZ5.6B2KG	5.49	5.73	5	5	2.5	80	5	30
RKZ6.2B2KG	6.06	6.33	5	2	3.0	50	5	30
RKZ6.8B2KG	6.65	6.93	5	2	3.5	30	5	30
RKZ7.5B2KG	7.28	7.60	5	2	4.0	30	5	30
RKZ8.2B2KG	8.02	8.36	5	2	5.0	30	5	30
RKZ9.1B2KG	8.85	9.23	5	2	6.0	30	5	30
RKZ10B2KG	9.77	10.21	5	2	7.0	30	5	30
RKZ11B2KG	10.76	11.22	5	2	8.0	30	5	30
RKZ12B2KG	11.74	12.24	5	2	9.0	35	5	30
RKZ13B2KG	12.91	13.49	5	2	10.0	35	5	30
RKZ15B2KG	14.34	14.98	5	2	11.0	40	5	25
RKZ16B2KG	15.85	16.51	5	2	12.0	40	5	25
RKZ18B2KG	17.56	18.35	5	2	13.0	45	5	25
RKZ20B2KG	19.52	20.39	5	2	15.0	50	5	20
RKZ22B2KG	21.54	22.47	5	2	17.0	55	5	20
RKZ24B2KG	23.72	24.78	5	2	19.0	60	5	15
RKZ27BKG	25.10	28.90	2	2	21.0	70	2	15
RKZ30BKG	28.00	32.00	2	2	23.0	80	2	13
RKZ33BKG	31.00	35.00	2	2	25.0	80	2	8
RKZ36BKG	34.00	38.00	2	2	27.0	90	2	8

Notes: 1. Tested with pulse (Pw = 40 ms).

2. C =150 pF, R = 330 Ω , Both forward and reverse direction 10 pulse Failure criterion ; According to IR spec

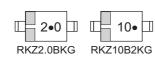
RENESAS

Mark Code

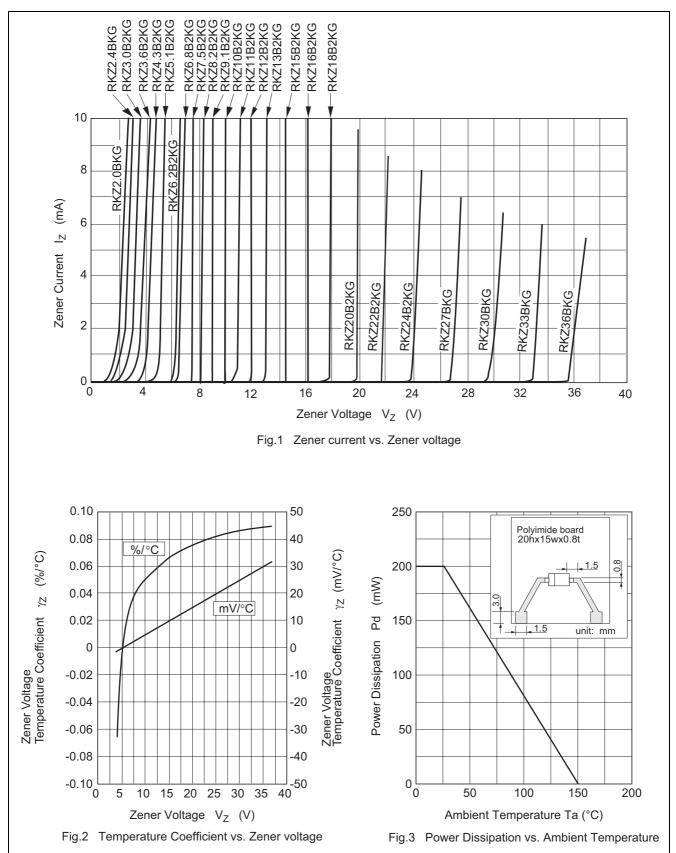
Part No.	Mark No.
RKZ2.0BKG	2•0
RKZ2.2BKG	2•2
RKZ2.4BKG	2•4
RKZ2.7B2KG	2•7
RKZ3.0B2KG	3•0
RKZ3.3B2KG	3•3
RKZ3.6B2KG	3•6
RKZ3.9B2KG	3•9
RKZ4.3B2KG	4•3
RKZ4.7B2KG	4 • 7
RKZ5.1B2KG	5 • 1
RKZ5.6B2KG	5•6
RKZ6.2B2KG	6•2
RKZ6.8B2KG	6 • 8
RKZ7.5B2KG	7•5
RKZ8.2B2KG	8•2

Part No.	Mark No.
RKZ9.1B2KG	9•1
RKZ10B2KG	10•
RKZ11B2KG	11•
RKZ12B2KG	12•
RKZ13B2KG	13•
RKZ15B2KG	15•
RKZ16B2KG	16•
RKZ18B2KG	18•
RKZ20B2KG	20•
RKZ22B2KG	22•
RKZ24B2KG	24•
RKZ27BKG	27•
RKZ30BKG	30•
RKZ33BKG	33•
RKZ36BKG	36•

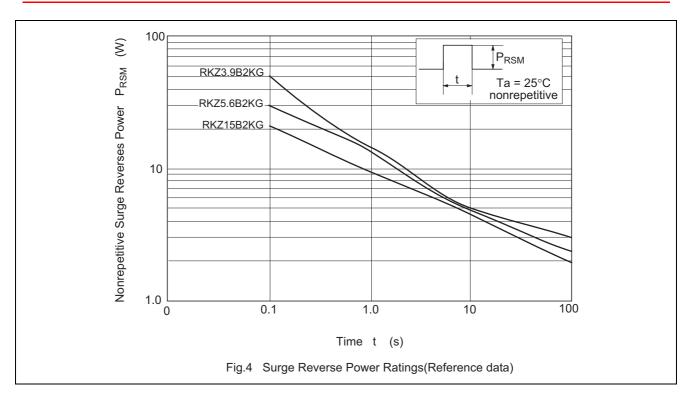
Note: 1. Example of Marking



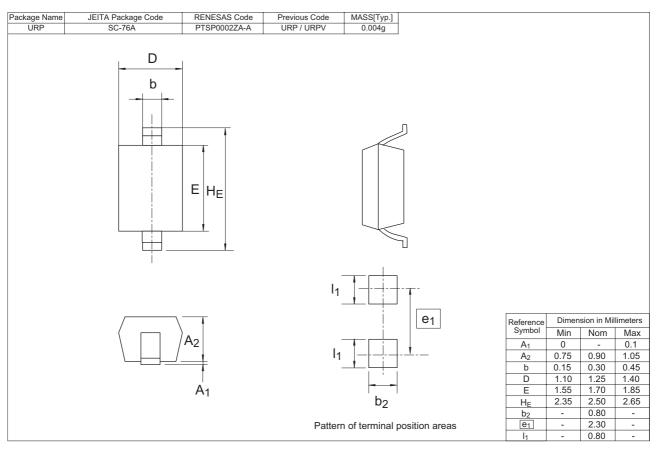
Main Characteristic



RENESAS



Package Dimensions



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



RENESAS SALES OFFICES

Refer to "http://www.renesas.com/en/network" for the latest and detailed information.

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) 6887-7898

Renesas Technology Hong Kong Ltd. 7th Floor, North Tower, World Finance Centre, Harbour City, 1 Canton Road, Tsimshatsui, Kowloon, Hong Kong Tel: <852> 2265-6688, Fax: <852> 2730-6071

Renesas Technology Taiwan Co., Ltd. 10th Floor, No.99, Fushing North Road, Taipei, Taiwan Tel: <886> (2) 2715-2888, Fax: <886> (2) 2713-2999

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, Jalan Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia Tel: <603> 7955-9390, Fax: <603> 7955-9510

http://www.renesas.com