

RKZ-KP Series

Silicon Planar Zener Diode for Surge Absorption

REJ03G1728-0100 Rev.1.00 Aug 04, 2008

Features

- High ESD-Capability 30 kV, human body model (IEC61000-4-2).
- Wide zener voltage range from 6.2 V through 8.2 V.
- Halogen free, Environmental friendly Package include Conformity to RoHS Directive.
- Ultra small Package (0.6mm × 0.3mm Size leadless type).

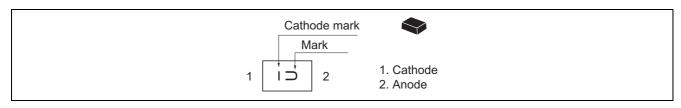
Ordering Information

Part No. Laser Mark		Package Name	Package Code	
RKZ-KP Series	Let to Mark Code	MP6	PXSN0002ZB-A	

Mark Code

Part No.	Mark No.
RKZ6.2BKP	U
RKZ6.8BKP	V
RKZ8.2BKP	W

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Power dissipation	Pd *1	100	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Note: 1. With P.C. Board.

Electrical Characteristics

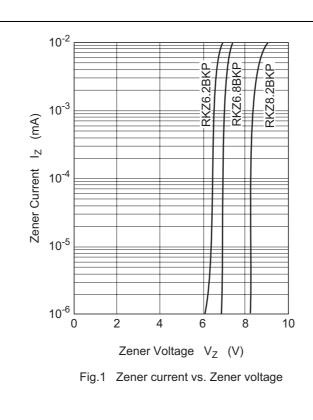
 $(Ta = 25^{\circ}C)$

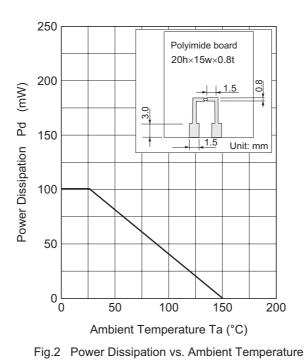
	Zener Voltag		age Reverse Current		Dynamic Resistance		ESD-Capability	
	V _z (V) * ¹	Test Condition	I _R (μ A)	Test Condition	r _d (Ω)	Test Condition	(kV) * ²
Part No.	Min	Max	I _Z (mA)	Max	V _R (V)	Max	I _Z (mA)	Min
RKZ6.2BKP	5.86	6.53	5	2	3.0	50	5	30
RKZ6.8BKP	6.47	7.14	5	2	3.5	30	5	30
RKZ8.2BKP	7.76	8.64	5	2	5.0	30	5	30

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

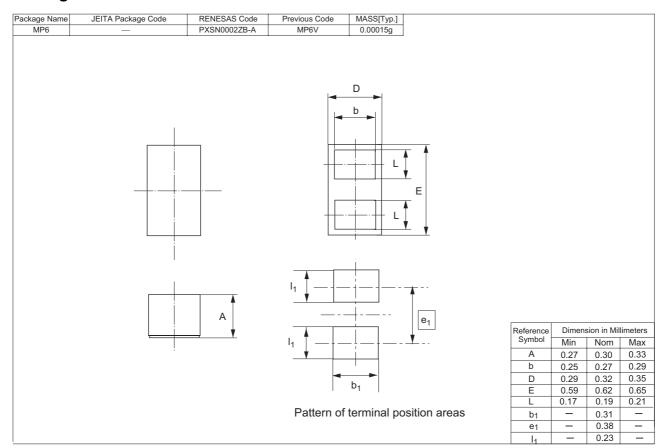
- 2. C =150 pF, R = 330 Ω , Both forward and reverse direction 10 pulse Failure criterion should according to IR spec .
- 3. Please do not use the soldering iron due to avoid high stress to the MP6 package.

Main Characteristic





Package Dimensions



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

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

 1. This document is provided for reference purposes only so that Renesas customers may select the appropriate Renesas products for their use. Renesas neither makes warrantes or representations with respect to the accuracy or completeness of the information in this document nor grants any license to any intellectual property girbs to any other rights of representations with respect to the information in this document in this document of the purpose of the respect of the information in this document in the product data, diagrams, charts, programs, algorithms, and application circuit examples.

 3. You should not use the products of the technology described in this document for the purpose of military use. When exporting the products or technology described herein, you should follow the applicable export control laws and regulations, and procedures required by such laws and regulations, and procedures required to change without any plan protein. Before purchasing or using any Renesas products listed in this document, in the such procedure in the procedure of the development of the development of the development of the procedure of the development of the de



RENESAS SALES OFFICES

http://www.renesas.com

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) 6887-7858/7898

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