

# **RKZ-KV** Series

Silicon Planar Zener Diode for Constant voltage regulator

REJ03G1700-0100 Rev.1.00 Feb 10, 2010

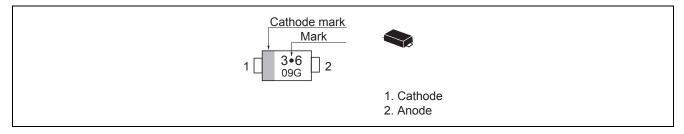
### Features

- These diodes are delivered taped.
- Small Resin Package Flat lead type (SRP-F) is suitable for compact and high-density surface mount design.

### **Ordering Information**

Part No	Part No Laser Mark		Package Code	Taping Abbreviation (Quantity)	
RKZ-KV Series	Let to Mark Code	SRP-F	PWSF0002ZB-A	P (3,000 pcs / reel)	

### **Pin Arrangement**



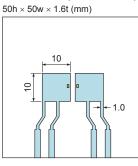
## **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Power dissipation	Pd * <sup>1</sup>	700	mW
Junction temperature	Тј	150	٥C
Storage temperature	Tstg	–55 to +150	٥C

Note: 1. Device mounted on glass-epoxy board ( $50 \times 50$ mm, t = 1.6mm)

2. Solder land (10  $\times$  10 mm)



## **Electrical Characteristics**

								$(Ta = 25^{\circ}C)$	
	Zener Voltage			Reverse Current		Dynamic	Resistance	ESD-Capability * <sup>2</sup>	
					Test		Test		
	Vz (V) * <sup>1</sup>		Condition	I <sub>R</sub> (μ <b>Α</b> )	Condition	r <sub>d</sub> (Ω)	Condition	(kV) * <sup>2</sup>	
Part No.	Min	Max	I <sub>z</sub> (mA)	Мах	V <sub>R</sub> (V)	Мах	I <sub>z</sub> (mA)	Min	
RKZ3.6BKV	3.40	3.80	10	10	1	130	10	30	
RKZ3.9BKV	3.70	4.10	10	10	1	130	10	30	
RKZ4.3BKV	4.01	4.48	10	10	1	130	10	30	
RKZ4.7BKV	4.42	4.90	10	10	1	130	10	30	
RKZ5.1BKV	4.84	5.37	10	5	1.5	130	10	30	
RKZ5.6BKV	5.31	5.92	10	5	2.5	80	10	30	
RKZ6.2BKV	5.86	6.53	10	2	3	50	10	30	
RKZ6.8BKV	6.47	7.14	10	2	3.5	30	10	30	
RKZ7.5BKV	7.06	7.84	10	2	4	30	10	30	
RKZ8.2BKV	7.76	8.64	10	2	5	30	10	30	
RKZ9.1BKV	8.56	9.55	10	2	6	30	10	30	
RKZ10BKV	9.45	10.55	10	2	7	30	10	30	
RKZ11BKV	10.44	11.56	10	2	8	30	10	30	
RKZ12BKV	11.42	12.60	10	2	9	35	10	30	
RKZ13BKV	12.47	13.96	10	2	10	35	10	30	
RKZ15BKV	13.84	15.52	5	2	11	40	5	30	
RKZ16BKV	15.37	17.09	5	2	12	40	5	30	
RKZ18BKV	16.94	19.03	5	2	13	45	5	30	
RKZ20BKV	18.86	21.08	5	2	15	50	5	30	
RKZ22BKV	20.88	23.17	5	2	17	55	5	30	
RKZ24BKV	22.93	25.57	5	2	19	60	5	30	
RKZ27BKV	25.10	28.90	2	2	21	70	2	30	
RKZ30BKV	28.00	32.00	2	2	23	80	2	30	
RKZ33BKV	31.00	35.00	2	2	25	80	2	30	
RKZ36BKV	34.00	38.00	2	2	27	90	2	30	

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

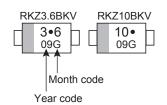
2. C =150 pF, R = 330  $\Omega$ , Both forward and reverse direction 10 pulse Failure criterion ; According to IR spec

### Mark Code

Part No.	Mark No.
RKZ3.6BKV	3 · 6
RKZ3.9BKV	3 · 9
RKZ4.3BKV	4 · 3
RKZ4.7BKV	4 · 7
RKZ5.1BKV	5 · 1
RKZ5.6BKV	5 · 6
RKZ6.2BKV	6 · 2
RKZ6.8BKV	6 · 8
RKZ7.5BKV	7 · 5
RKZ8.2BKV	8 · 2
RKZ9.1BKV	9 · 1
RKZ10BKV	10 ·
RKZ11BKV	11 ·

Part No.	Mark No.
RKZ12BKV	12 ·
RKZ13BKV	13 ·
RKZ15BKV	15 ·
RKZ16BKV	16 ·
RKZ18BKV	18 ·
RKZ20BKV	20 ·
RKZ22BKV	22 ·
RKZ24BKV	24 ·
RKZ27BKV	27 ·
RKZ30BKV	30 ·
RKZ33BKV	33 ·
RKZ36BKV	36 ·

Note: 1. Example of Marking

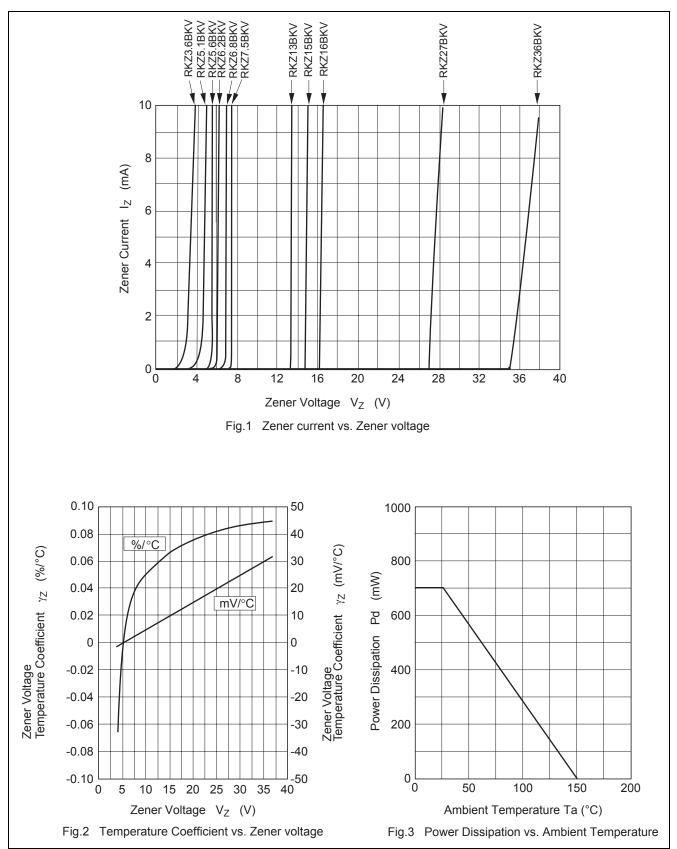


Year code: Last two digits of the year  $\mbox{ ex: } 2009{\rightarrow}09$ 

Month code

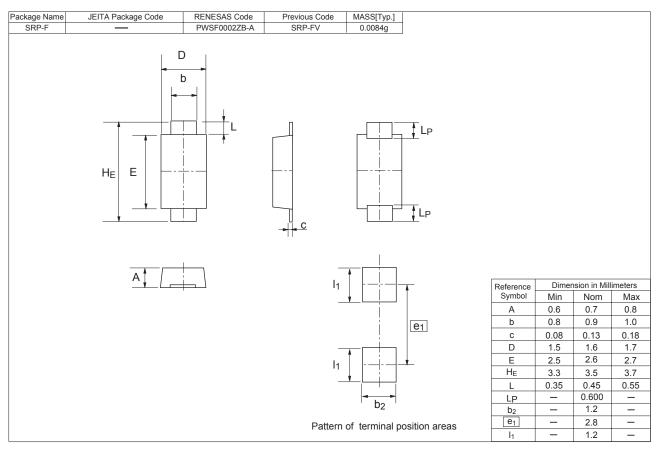
Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.
А	В	С	D	Е	F	G	Н	J	к	L	М

### **Main Characteristics**



RENESAS

### **Package Dimensions**



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