

# **RKZ-KJ Series**

# Silicon Planar Zener Diode for Surge Absorption and Stabilizer

REJ03G1588-0100 Rev.1.00 Sep 21, 2007

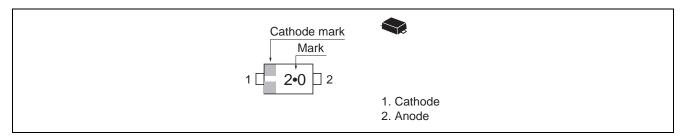
#### **Features**

- Emboss Taping Reel Pack.
- Ultra small Flat Lead Package (UFP) is suitable for surface mount design.

# **Ordering Information**

Part No.	Laser Mark	Package Name	Package Code	
RKZ-KJ Series	Let to Mark Code	UFP	PWSF0002ZA-A	

## **Pin Arrangement**



# **Absolute Maximum Ratings**

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

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

Note: 1. With P.C. Board.

### **Electrical Characteristics**

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

	Zener Voltage		Reverse Current		Dynamic Resistance		ESD-Capability *2	
	V <sub>z</sub> (	V) * <sup>1</sup>	Test Condition	I <sub>R</sub> (μA)	Test Condition	r <sub>d</sub> (Ω)	Test Condition	— (kV) * <sup>2</sup>
Part No.	Min	Max	I <sub>Z</sub> (mA)	Max	V <sub>R</sub> (V)	Max	I <sub>Z</sub> (mA)	Min
RKZ2.0BKJ	1.90	2.20	5	120	0.5	100	5	30
RKZ2.2BKJ	2.10	2.40	5	120	0.7	100	5	30
RKZ2.4BKJ	2.30	2.60	5	120	1.0	100	5	30
RKZ2.7B2KJ	2.65	2.90	5	120	1.0	110	5	30
RKZ3.0B2KJ	2.95	3.20	5	50	1.0	120	5	30
RKZ3.3B2KJ	3.25	3.50	5	20	1.0	130	5	30
RKZ3.6B2KJ	3.55	3.80	5	10	1.0	130	5	30
RKZ3.9B2KJ	3.87	4.10	5	10	1.0	130	5	30
RKZ4.3B2KJ	4.15	4.34	5	10	1.0	130	5	30
RKZ4.7B2KJ	4.55	4.75	5	10	1.0	130	5	30
RKZ5.1B2KJ	4.98	5.20	5	5	1.5	130	5	30
RKZ5.6B2KJ	5.49	5.73	5	5	2.5	80	5	30
RKZ6.2B2KJ	6.06	6.33	5	2	3.0	50	5	30
RKZ6.8B2KJ	6.65	6.93	5	2	3.5	30	5	30
RKZ7.5B2KJ	7.28	7.60	5	2	4.0	30	5	30
RKZ8.2B2KJ	8.02	8.36	5	2	5.0	30	5	30
RKZ9.1B2KJ	8.85	9.23	5	2	6.0	30	5	30
RKZ10B2KJ	9.77	10.21	5	2	7.0	30	5	30
RKZ11B2KJ	10.76	11.22	5	2	8.0	30	5	30
RKZ12B2KJ	11.74	12.24	5	2	9.0	35	5	30
RKZ13B2KJ	12.91	13.49	5	2	10.0	35	5	30
RKZ15B2KJ	14.34	14.98	5	2	11.0	40	5	25
RKZ16B2KJ	15.85	16.51	5	2	12.0	40	5	25
RKZ18B2KJ	17.56	18.35	5	2	13.0	45	5	25
RKZ20B2KJ	19.52	20.39	5	2	15.0	50	5	20
RKZ22B2KJ	21.54	22.47	5	2	17.0	55	5	20
RKZ24B2KJ	23.72	24.78	5	2	19.0	60	5	15
RKZ27BKJ	25.10	28.90	2	2	21.0	70	2	15
RKZ30BKJ	28.00	32.00	2	2	23.0	80	2	13
RKZ33BKJ	31.00	35.00	2	2	25.0	80	2	8
RKZ36BKJ	34.00	38.00	2	2	27.0	90	2	8

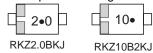
Notes: 1. Tested with pulse (Pw = 40 ms).

- 2. C =150 pF, R = 330  $\Omega$ , Both forward and reverse direction 10 pulse Failure criterion ; According to IR spec
- 3. The material of lead is exposed for cutting plane. Therefore, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

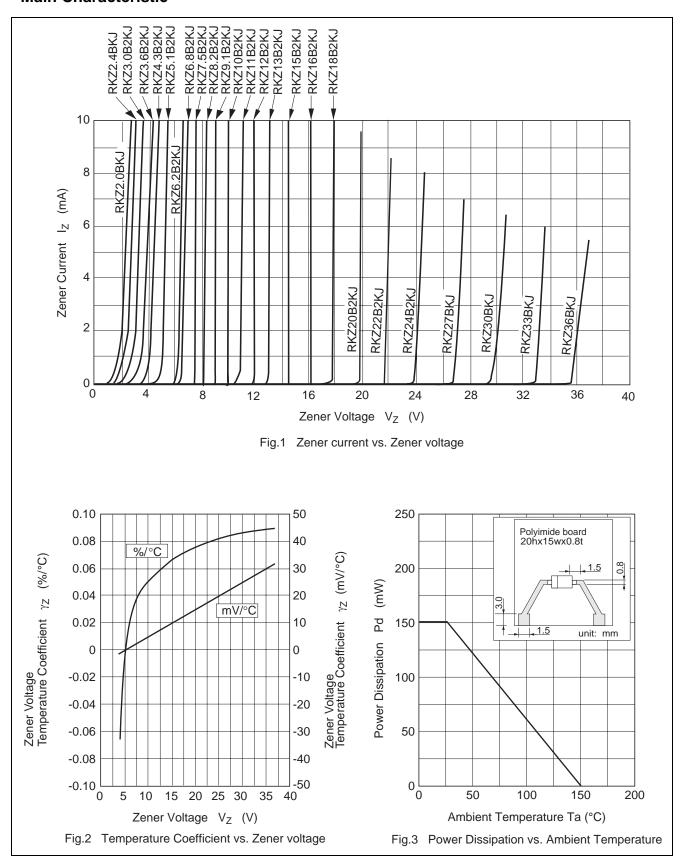
# **Mark Code**

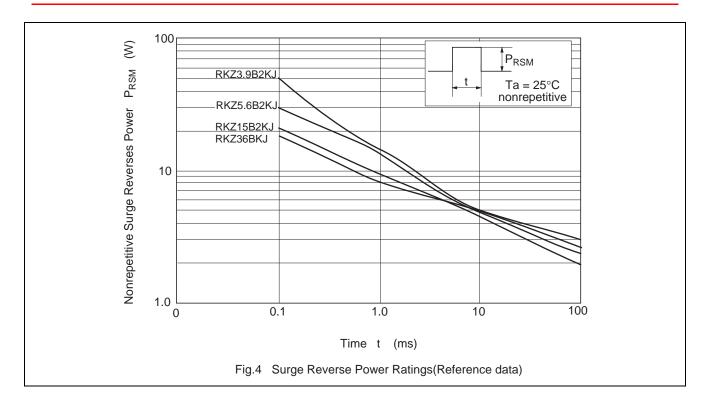
Part No.	Mark No.	Part No.	Mark No.
RKZ2.0BKJ	2 · 0	RKZ9.1B2KJ	9 · 1
RKZ2.2BKJ	2 · 2	RKZ10B2KJ	10.
RKZ2.4BKJ	2 · 4	RKZ11B2KJ	11.
RKZ2.7B2KJ	2 · 7	RKZ12B2KJ	12.
RKZ3.0B2KJ	3 · 0	RKZ13B2KJ	13.
RKZ3.3B2KJ	3 · 3	RKZ15B2KJ	15.
RKZ3.6B2KJ	3 · 6	RKZ16B2KJ	16.
RKZ3.9B2KJ	3 · 9	RKZ18B2KJ	18.
RKZ4.3B2KJ	4 · 3	RKZ20B2KJ	20.
RKZ4.7B2KJ	4 · 7	RKZ22B2KJ	22.
RKZ5.1B2KJ	5 · 1	RKZ24B2KJ	24.
RKZ5.6B2KJ	RKZ5.6B2KJ 5 · 6		27.
RKZ6.2B2KJ	6 · 2	RKZ30BKJ	30.
RKZ6.8B2KJ	RKZ6.8B2KJ 6 · 8		33.
RKZ7.5B2KJ	7 · 5	RKZ36BKJ	36.
RKZ8.2B2KJ	8 · 2		•

Note: 1. Example of Marking

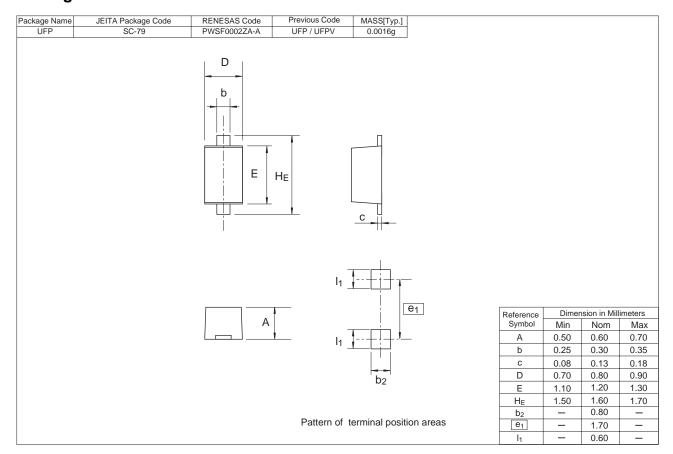


### **Main Characteristic**





# **Package Dimensions**



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