

RKZ-KD Series

Silicon Planar Zener Diode for Stabilized Power Supply

REJ03G1264-0200 Rev.2.00 May 09, 2008

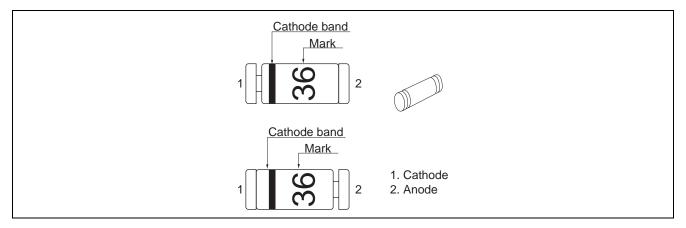
Features

- Low leakage, low zener impedance and maximum power dissipation of 500 mW.
- Wide spectrum from 1.9 V through 38 V of zener voltage provide flexible application.
- LLD Package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Part No.	Cathode band	Character Mark	Package Name	Package Code
RKZ-KD Series	Same Color as	Refer to Mark Code	LLD	GLZZ0002ZA-A
	Character Mark			

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Power dissipation	Pd	500	mW
Junction temperature	Tj	175	°C
Storage temperature	Tstg	–55 to +175	C°

Electrical Characteristics

		Zener Volta	ge	Revers	e Current	Dynamic Resistance		
			Test		Test		Test	
	Vz	(V) * ¹	Condition	I _R (μΑ)	Condition	r _d (Ω)	Condition	
Part No.	Min	Max	I _z (mA)	Max	V _R (V)	Max	I _z (mA)	
RKZ2B1KD	1.9	2.1	5	5	0.5	100	5	
RKZ2B2KD	2.0	2.2						
RKZ2B3KD	2.1	2.3						
RKZ2C1KD	2.2	2.4						
RKZ2C2KD	2.3	2.5						
RKZ2C3KD	2.4	2.6						
RKZ3A1KD	2.5	2.7	5	5	0.5	100	5	
RKZ3A2KD	2.6	2.8						
RKZ3A3KD	2.7	2.9						
RKZ3B1KD	2.8	3.0						
RKZ3B2KD	2.9	3.1						
RKZ3B3KD	3.0	3.2						
RKZ3C1KD	3.1	3.3						
RKZ3C2KD	3.2	3.4						
RKZ3C3KD	3.3	3.5						
RKZ4A1KD	3.4	3.6	5	5	1.0	100	5	
RKZ4A2KD	3.5	3.7						
RKZ4A3KD	3.6	3.8						
RKZ4B1KD	3.7	3.9						
RKZ4B2KD	3.8	4.0						
RKZ4B3KD	3.9	4.1						
RKZ4C1KD	4.0	4.2						
RKZ4C2KD	4.1	4.3						
RKZ4C3KD	4.2	4.4						
RKZ5A1KD	4.3	4.5	5	5	1.5	100	5	
RKZ5A2KD	4.4	4.6						
RKZ5A3KD	4.5	4.7						
RKZ5B1KD	4.6	4.8						
RKZ5B2KD	4.7	4.9	1					
RKZ5B3KD	4.8	5.0	1					
RKZ5C1KD	4.9	5.1	7					
RKZ5C2KD	5.0	5.2	7					
RKZ5C3KD	5.1	5.3	-					

Note: 1. Tested with DC.

		Zener Volta	ge	Revers	e Current	Dynamic Resistance		
			Test		Test		Test	
	V _z ((V)* ¹	Condition	I _R (μΑ)	Condition	r _d (Ω)	Condition	
Part No.	Min	Max	I _z (mA)	Max	V _R (V)	Max	l _z (mA)	
RKZ6A1KD	5.2	5.5	5	5	2.0	40	5	
RKZ6A2KD	5.3	5.6						
RKZ6A3KD	5.4	5.7						
RKZ6B1KD	5.5	5.8						
RKZ6B2KD	5.6	5.9						
RKZ6B3KD	5.7	6.0						
RKZ6C1KD	5.8	6.1						
RKZ6C2KD	6.0	6.3						
RKZ6C3KD	6.1	6.4						
RKZ7A1KD	6.3	6.6	5	1	3.5	15	5	
RKZ7A2KD	6.4	6.7						
RKZ7A3KD	6.6	6.9						
RKZ7B1KD	6.7	7.0						
RKZ7B2KD	6.9	7.2						
RKZ7B3KD	7.0	7.3						
RKZ7C1KD	7.2	7.6						
RKZ7C2KD	7.3	7.7						
RKZ7C3KD	7.5	7.9						
RKZ9A1KD	7.7	8.1	5	1	5.0	20	5	
RKZ9A2KD	7.9	8.3						
RKZ9A3KD	8.1	8.5						
RKZ9B1KD	8.3	8.7						
RKZ9B2KD	8.5	8.9						
RKZ9B3KD	8.7	9.1						
RKZ9C1KD	8.9	9.3						
RKZ9C2KD	9.1	9.5						
RKZ9C3KD	9.3	9.7						
RKZ11A1KD	9.5	9.9	5	1	7.5	25	5	
RKZ11A2KD	9.7	10.1						
RKZ11A3KD	9.9	10.3						
RKZ11B1KD	10.2	10.6						
RKZ11B2KD	10.4	10.8	7					
RKZ11B3KD	10.7	11.1	7					
RKZ11C1KD	10.9	11.3	7					
RKZ11C2KD	11.1	11.6	7					
RKZ11C3KD	11.4	11.9						

Note: 1. Tested with DC.

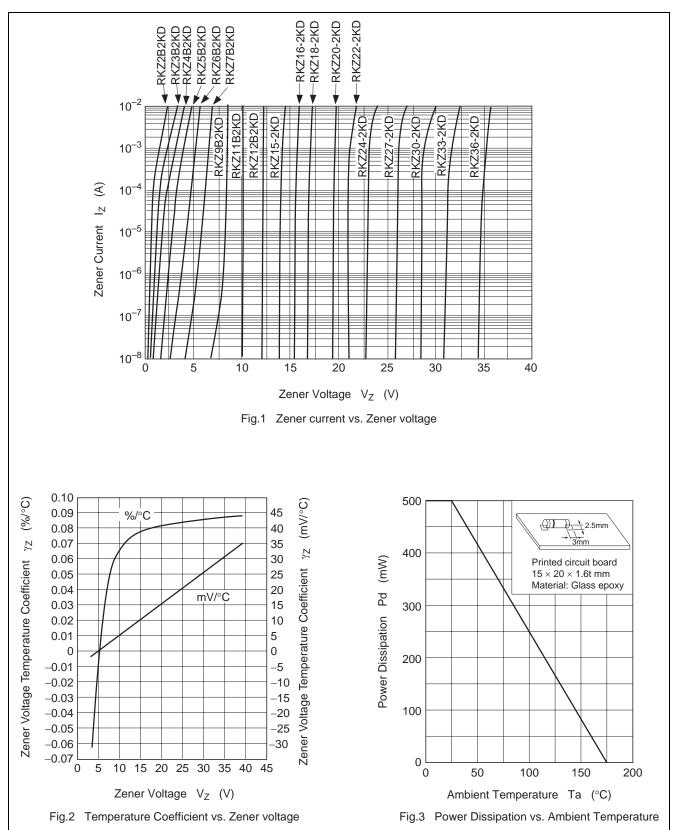
		Zener Voltag	ge	Revers	Reverse Current		Resistance
	Vz	(V) * ¹	Test Condition	Ι _R (μΑ)	Test Condition	r _d (Ω)	Test Condition
Part No.	Min	Max	I _z (mA)	Max	V _R (V)	Max	I _z (mA)
RKZ12A1KD	11.6	12.1	5	1	9.5	35	5
RKZ12A2KD	11.9	12.4					
RKZ12A3KD	12.2	12.7					
RKZ12B1KD	12.4	12.9					
RKZ12B2KD	12.6	13.1					
RKZ12B3KD	12.9	13.4					
RKZ12C1KD	13.2	13.7					
RKZ12C2KD	13.5	14.0					
RKZ12C3KD	13.8	14.3					
RKZ15-1KD	14.1	14.7	5	1	11.0	40	5
RKZ15-2KD	14.5	15.1					
RKZ15-3KD	14.9	15.5					
RKZ16-1KD	15.3	15.9	5	1	12.0	45	5
RKZ16-2KD	15.7	16.5					
RKZ16-3KD	16.3	17.1					
RKZ18-1KD	16.9	17.7	5	1	13.0	55	5
RKZ18-2KD	17.5	18.3					
RKZ18-3KD	18.1	19.0					
RKZ20-1KD	18.8	19.7	2	1	15.0	60	2
RKZ20-2KD	19.5	20.4					
RKZ20-3KD	20.2	21.1					
RKZ22-1KD	20.9	21.9	2	1	17.0	65	2
RKZ22-2KD	21.6	22.6					
RKZ22-3KD	22.3	23.3					
RKZ24-1KD	22.9	24.0	2	1	19.0	70	2
RKZ24-2KD	23.6	24.7					
RKZ24-3KD	24.3	25.5					
RKZ27-1KD	25.2	26.6	2	1	21.0	80	2
RKZ27-2KD	26.2	27.6					
RKZ27-3KD	27.2	28.6					
RKZ30-1KD	28.2	29.6	2	1	23.0	100	2
RKZ30-2KD	29.2	30.6					
RKZ30-3KD	30.2	31.6					
RKZ33-1KD	31.2	32.6	2	1	25.0	120	2
RKZ33-2KD	32.2	33.6					
RKZ33-3KD	33.2	34.6					
RKZ36-1KD	34.2	35.7	2	1	27.0	140	2
RKZ36-2KD	35.3	36.8					
RKZ36-3KD	36.4	38.0					

Note: 1. Tested with DC.

Mark Code

	Character			Character			Character	
Part No.	Mark	Color	Part No.	Mark	Color	Part No.	Mark	Color
RKZ2B1KD	2B	Pink	RKZ6B1KD	6B	Pink	RKZ12B1KD	BB	Pink
RKZ2B2KD	2B	Blue	RKZ6B2KD	6B	Blue	RKZ12B2KD	BB	Blue
RKZ2B3KD	2B	White	RKZ6B3KD	6B	White	RKZ12B3KD	BB	White
RKZ2C1KD	2C	Pink	RKZ6C1KD	6C	Pink	RKZ12C1KD	BC	Pink
RKZ2C2KD	2C	Blue	RKZ6C2KD	6C	Blue	RKZ12C2KD	BC	Blue
RKZ2C3KD	2C	White	RKZ6C3KD	6C	White	RKZ12C3KD	BC	White
RKZ3A1KD	ЗA	Pink	RKZ7A1KD	7A	Pink	RKZ15-1KD	15	Pink
RKZ3A2KD	ЗA	Blue	RKZ7A2KD	7A	Blue	RKZ15-2KD	15	Blue
RKZ3A3KD	ЗA	White	RKZ7A3KD	7A	White	RKZ15-3KD	15	White
RKZ3B1KD	3B	Pink	RKZ7B1KD	7B	Pink	RKZ16-1KD	16	Pink
RKZ3B2KD	3B	Blue	RKZ7B2KD	7B	Blue	RKZ16-2KD	16	Blue
RKZ3B3KD	3B	White	RKZ7B3KD	7B	White	RKZ16-3KD	16	White
RKZ3C1KD	3C	Pink	RKZ7C1KD	7C	Pink	RKZ18-1KD	18	Pink
RKZ3C2KD	3C	Blue	RKZ7C2KD	7C	Blue	RKZ18-2KD	18	Blue
RKZ3C3KD	3C	White	RKZ7C3KD	7C	White	RKZ18-3KD	18	White
RKZ4A1KD	4A	Pink	RKZ9A1KD	9A	Pink	RKZ20-1KD	20	Pink
RKZ4A2KD	4A	Blue	RKZ9A2KD	9A	Blue	RKZ20-2KD	20	Blue
RKZ4A3KD	4A	White	RKZ9A3KD	9A	White	RKZ20-3KD	20	White
RKZ4B1KD	4B	Pink	RKZ9B1KD	9B	Pink	RKZ22-1KD	22	Pink
RKZ4B2KD	4B	Blue	RKZ9B2KD	9B	Blue	RKZ22-2KD	22	Blue
RKZ4B3KD	4B	White	RKZ9B3KD	9B	White	RKZ22-3KD	22	White
RKZ4C1KD	4C	Pink	RKZ9C1KD	9C	Pink	RKZ24-1KD	24	Pink
RKZ4C2KD	4C	Blue	RKZ9C2KD	9C	Blue	RKZ24-2KD	24	Blue
RKZ4C3KD	4C	White	RKZ9C3KD	9C	White	RKZ24-3KD	24	White
RKZ5A1KD	5A	Pink	RKZ11A1KD	AA	Pink	RKZ27-1KD	27	Pink
RKZ5A2KD	5A	Blue	RKZ11A2KD	AA	Blue	RKZ27-2KD	27	Blue
RKZ5A3KD	5A	White	RKZ11A3KD	AA	White	RKZ27-3KD	27	White
RKZ5B1KD	5B	Pink	RKZ11B1KD	AB	Pink	RKZ30-1KD	30	Pink
RKZ5B2KD	5B	Blue	RKZ11B2KD	AB	Blue	RKZ30-2KD	30	Blue
RKZ5B3KD	5B	White	RKZ11B3KD	AB	White	RKZ30-3KD	30	White
RKZ5C1KD	5C	Pink	RKZ11C1KD	AC	Pink	RKZ33-1KD	33	Pink
RKZ5C2KD	5C	Blue	RKZ11C2KD	AC	Blue	RKZ33-2KD	33	Blue
RKZ5C3KD	5C	White	RKZ11C3KD	AC	White	RKZ33-3KD	33	White
RKZ6A1KD	6A	Pink	RKZ12A1KD	BA	Pink	RKZ36-1KD	36	Pink
RKZ6A2KD	6A	Blue	RKZ12A2KD	BA	Blue	RKZ36-2KD	36	Blue
RKZ6A3KD	6A	White	RKZ12A3KD	BA	White	RKZ36-3KD	36	White

Main Characteristic



RENESAS

Package Dimensions

ackage Name	JEITA Package Code	RENESAS Code	Previous Code	MASS[Typ.]				
LLD		GLZZ0002ZA-A	LLD / LLDV	0.027g				
		φD		HE				
					Defer	Dimon	oion in Mi	llimotor
					Reference		ision in Mil	
					Symbol	Min	Nom	Max
					Reference Symbol ¢D H _E			llimeter Max 1.45 3.60

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