

HZK Series

Silicon Epitaxial Planar Zener Diodes for Stabilized Power Supply

> REJ03G0018-0300Z (Previous: ADE-208-126B)

> > Rev.3.00 May.14.2003

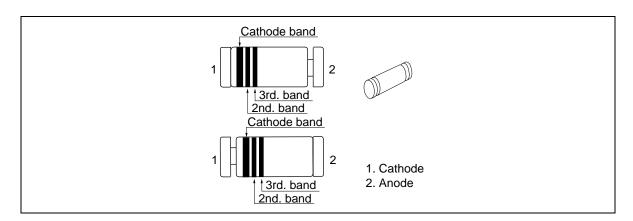
Features

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

Ordering Information

Type No.	Mark	Package Code
HZK Series	Color Code	LLD

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	

Note: With P.C. Board.

Electrical Characteristics

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

		Zener Voltage		Reverse Current		Dynamic Resistance		
		V _z (V)	*	Test Condition	I _R (μΑ)	Test Condition	r _d (Ω)	Test Condition
Туре	Grade	Min	Max	I _z (mA)	Max	V _R (V)	Max	I _z (mA)
HZK2	В	1.9	2.3	5	5	0.5	100	5
	С	2.2	2.6					
HZK3	Α	2.5	2.9	5	5	0.5	100	5
	В	2.8	3.2					
	С	3.1	3.5					
HZK4	Α	3.4	3.8	5	5	1.0	100	5
	В	3.7	4.1					
	С	4.0	4.4					
HZK5	Α	4.3	4.7	5	5	1.5	100	5
	В	4.6	5.0					
	С	4.9	5.3					
HZK6	Α	5.2	5.7	5	5	2	40	5
	В	5.5	6.0					
	С	5.8	6.4					
HZK7	Α	6.3	6.9	5	1	3.5	15	5
	В	6.7	7.3					
	С	7.2	7.9					
HZK9	Α	7.7	8.5	5	1	5	20	5
	В	8.3	9.1					
	С	8.9	9.7					

Note: Tested with DC.

HZK Series

Electrical Characteristics (cont.)

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

		Zener Voltage			Reverse Current		Dynamic Resistance	
		V _z (V)*		Test Condition	I _R (μΑ)	Test Condition	r _d (Ω)	Test Condition
Туре	Grade	Min	Max	I _z (mA)	Max	V _R (V)	Max	I _z (mA)
HZK11	Α	9.5	10.3	5	1	7.5	25	5
	В	10.2	11.1					
	С	10.9	11.9					
HZK12	Α	11.6	12.7	5	1	9.5	35	5
	В	12.4	13.4					
	С	13.2	14.3					
HZK15		14.1	15.5	5	1	11	40	5
HZK16		15.3	17.1	5	1	12	45	5
HZK18		16.9	19.0	5	1	13	55	5
HZK20		18.8	21.1	2	1	15	60	2
HZK22		20.9	23.3	2	1	17	65	2
HZK24		22.9	25.5	2	1	19	70	2
HZK27		25.2	28.6	2	1	21	80	2
HZK30		28.2	31.6	2	1	23	100	2
HZK33		31.2	34.6	2	1	25	120	2
HZK36		34.2	38.0	2	1	27	140	2

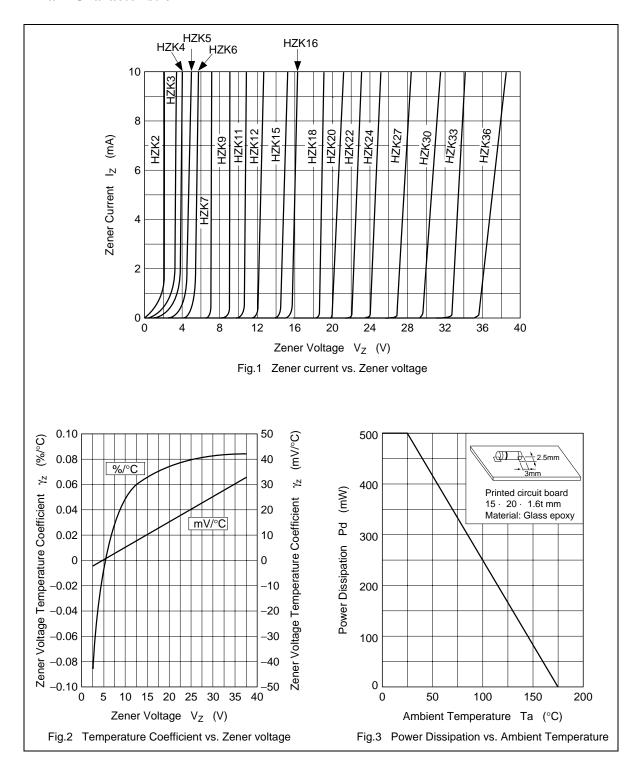
Note: Tested with DC.

Type No. is as follows: HZK2B, HZK2C, ••• HZK36.

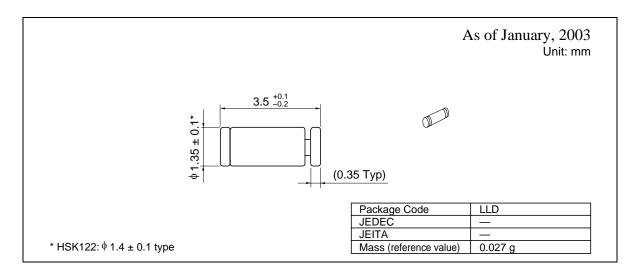
Mark Color Code

HZKZB Yellow Green Yellow Ocher Verdure HZKZC Yellow Green Yellow Ocher Light Blue HZK3A Yellow Green Pink Pink HZK3B Yellow Green Pink Verdure HZK3C Yellow Green Pink Light Blue HZK4A Yellow Green Orange Pink HZK4B Yellow Green Orange Light Blue HZK4B Yellow Green Orange Light Blue HZK4C Yellow Green Yellow Pink HZK5B Yellow Green Yellow Pink HZK5B Yellow Green Yellow Verdure HZK5B Yellow Green Yellow Verdure HZK6B Yellow Green Verdure Verdure HZK6B Yellow Green Yellow Green Verdure HZK6C Yellow Green Yellow Green Pink HZK7A Yellow Green Yellow Green Verdure HZK7B Yellow Green Yellow Green	Туре	Cathode Band	Second Band	Third Band	
HZK3A	HZK2B	Yellow Green	Yellow Ocher	Verdure	
HZK3B	HZK2C	Yellow Green	Yellow Ocher	Light Blue	
HZK3C Yellow Green Pink Light Blue HZK4A Yellow Green Orange Pink HZK4B Yellow Green Orange Verdure HZK4C Yellow Green Orange Light Blue HZK5A Yellow Green Yellow Pink HZK5B Yellow Green Yellow Verdure HZK5C Yellow Green Yellow Light Blue HZK6A Yellow Green Verdure Pink HZK6A Yellow Green Verdure Pink HZK6A Yellow Green Verdure Verdure HZK6A Yellow Green Verdure Verdure HZK6A Yellow Green Yellow Green Pink HZK6C Yellow Green Yellow Green Verdure HZK7A Yellow Green Yellow Green Verdure HZK7C Yellow Green Yellow Green Light Blue HZK7C Yellow Green Purple Verdure HZK9B Yellow Green Purple	HZK3A	Yellow Green	Pink	Pink	
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HZK24 Light Blue Verdure Pink HZK27 Light Blue Yellow Green Pink HZK30 Light Blue Purple Pink HZK33 Light Blue Light Blue Pink	HZK20	Light Blue	Orange	Pink	
HZK27 Light Blue Yellow Green Pink HZK30 Light Blue Purple Pink HZK33 Light Blue Light Blue Pink	HZK22	Light Blue	Yellow	Pink	
HZK30 Light Blue Purple Pink HZK33 Light Blue Light Blue Pink	HZK24	Light Blue	Verdure	Pink	
HZK33 Light Blue Light Blue Pink	HZK27	Light Blue	Yellow Green	Pink	
	HZK30	Light Blue	Purple	Pink	
HZK36 Light Blue White Pink	HZK33	Light Blue	Light Blue	Pink	
	HZK36	Light Blue	White	Pink	

Main Characteristic



Package Dimensions



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

Keep safety first in your circuit designs!

1. Renessa Technology Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage.

Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of nonflammable material or (iii) prevention against any malfunction or mishap.

Notes regarding these materials

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