RENESAS

HZK Series

Silicon Epitaxial Planar Zener Diodes for Stabilized Power Supply

REJ03G0018-0300Z (Previous: ADE-208-126B) Rev.3.00 May.14.2003

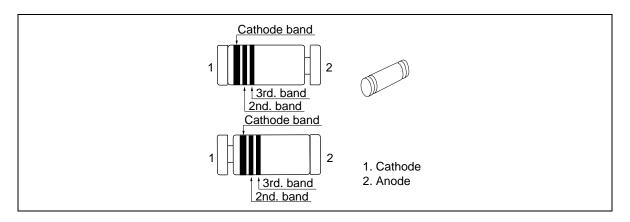
Features

- 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

Туре 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	Ι _R (μΑ)	Test Condition	r _d (Ω)	Test Condition
Туре	Grade	Min	Max	l _z (mA)	Max	V _R (V)	Max	l _z (mA)
HZK2	В	1.9	2.3	5	5	0.5	100	5
	С	2.2	2.6					
HZK3	А	2.5	2.9	5	5	0.5	100	5
	В	2.8	3.2					
	С	3.1	3.5					
HZK4	А	3.4	3.8	5	5	1.0	100	5
	В	3.7	4.1					
	С	4.0	4.4					
HZK5	А	4.3	4.7	5	5	1.5	100	5
	В	4.6	5.0					
	С	4.9	5.3					
HZK6	А	5.2	5.7	5	5	2	40	5
	В	5.5	6.0					
	С	5.8	6.4					
HZK7	А	6.3	6.9	5	1	3.5	15	5
	В	6.7	7.3					
	С	7.2	7.9					
HZK9	А	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	Ι _R (μΑ)	Test Condition	r _d (Ω)	Test Condition
Туре	Grade	Min	Max	l _z (mA)	Max	V _R (V)	Max	l _z (mA)
HZK11	А	9.5	10.3	5	1	7.5	25	5
	В	10.2	11.1					
	С	10.9	11.9					
HZK12	А	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

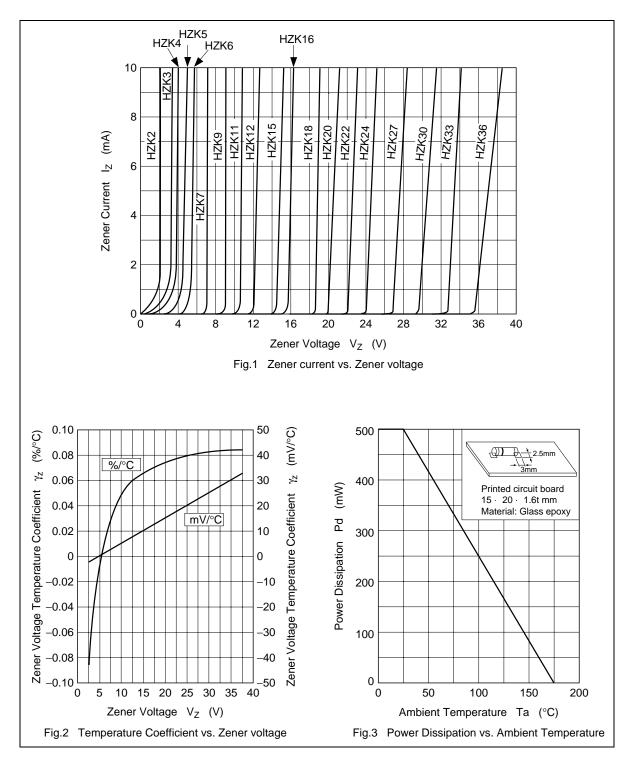
Note: Tested with DC.

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

Mark Color Code

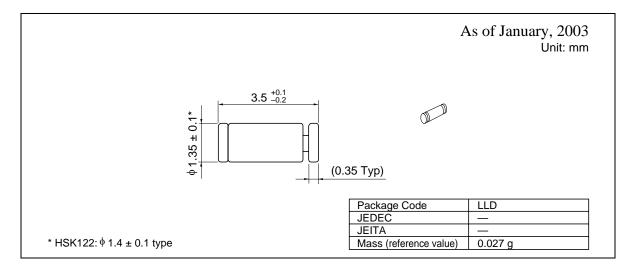
HZK2B Yellow Green Yellow Ocher Verdure HZK2C Yellow Green Yellow Ocher Light Blue HZK3A Yellow Green Pink Pink HZK3B Yellow Green Pink Uerdure HZK3C Yellow Green Pink Light Blue HZK4A Yellow Green Orange Pink HZK4B Yellow Green Orange Verdure HZK4C Yellow Green Orange Light Blue HZK4C Yellow Green Yellow Verdure HZK5B Yellow Green Yellow Verdure HZK5C Yellow Green Yellow Verdure HZK6A Yellow Green Yellow Verdure HZK6B Yellow Green Verdure Verdure HZK6C Yellow Green Yellow Green Verdure HZK7A Yellow Green Yellow Green Verdure HZK7A Yellow Green Yellow Green Verdure HZK7B Yellow Green Purple Pink HZK7C Yellow Green Purple Pink HZK7C Yellow Green Purple Pink HZK7A Yellow Green Light Blue HZK7E <	Туре	Cathode Band	Second Band	Third Band
HZK3AYellow GreenPinkPinkHZK3BYellow GreenPinkLight BlueHZK3CYellow GreenPinkLight BlueHZK4AYellow GreenOrangePinkHZK4BYellow GreenOrangeLight BlueHZK4CYellow GreenOrangeLight BlueHZK4CYellow GreenOrangeLight BlueHZK5AYellow GreenYellowVerdureHZK5BYellow GreenYellowVerdureHZK5CYellow GreenYellowVerdureHZK6AYellow GreenVerdureVerdureHZK6BYellow GreenVerdureVerdureHZK6CYellow GreenVerdureVerdureHZK7AYellow GreenYellow GreenPinkHZK7AYellow GreenYellow GreenVerdureHZK7BYellow GreenYellow GreenLight BlueHZK7CYellow GreenYellow GreenLight BlueHZK9AYellow GreenPurpleVerdureHZK9CYellow GreenPurpleLight BlueHZK11AYellow GreenLight BlueVerdureHZK12AYellow GreenLight BlueLight BlueHZK14Yellow GreenLight BlueVerdureHZK12AYellow GreenWihitePinkHZK12AYellow GreenWihitePinkHZK12AYellow GreenWihitePinkHZK12AYellow GreenWihitePinkHZK12AYellow Green <td< td=""><td>HZK2B</td><td>Yellow Green</td><td>Yellow Ocher</td><td>Verdure</td></td<>	HZK2B	Yellow Green	Yellow Ocher	Verdure
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HZK3CYellow GreenPinkLight BlueHZK4AYellow GreenOrangePinkHZK4BYellow GreenOrangeVerdureHZK4CYellow GreenOrangeLight BlueHZK5AYellow GreenYellowPinkHZK5BYellow GreenYellowVerdureHZK5CYellow GreenYellowLight BlueHZK5BYellow GreenYellowLight BlueHZK6AYellow GreenVerdurePinkHZK6BYellow GreenVerdureVerdureHZK6CYellow GreenVerdureVerdureHZK7AYellow GreenYellow GreenPinkHZK7BYellow GreenYellow GreenVerdureHZK7CYellow GreenYellow GreenVerdureHZK9AYellow GreenPurplePinkHZK9AYellow GreenPurpleVerdureHZK9BYellow GreenPurpleVerdureHZK11AYellow GreenLight BluePinkHZK11AYellow GreenLight BluePinkHZK11AYellow GreenLight BluePinkHZK112Yellow GreenLight BluePinkHZK114Yellow GreenWhitePinkHZK115Light BluePinkHZK12HZK116Light BlueYellow GreenPinkHZK16Light BlueYellow CherPinkHZK18Light BlueYellowPinkHZK16Light BlueYellowPink<	HZK3A	Yellow Green	Pink	Pink
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HZK9CYellow GreenPurpleLight BlueHZK11AYellow GreenLight BluePinkHZK11BYellow GreenLight BlueVerdureHZK11CYellow GreenLight BlueLight BlueHZK12AYellow GreenWhitePinkHZK12BYellow GreenWhiteVerdureHZK12CYellow GreenWhiteLight BlueHZK12CYellow GreenWhiteLight BlueHZK15Light BlueBlackPinkHZK16Light BlueYellow OcherPinkHZK18Light BluePinkPinkHZK20Light BlueOrangePinkHZK22Light BlueYellowPinkHZK24Light BlueYellow GreenPinkHZK27Light BlueYellow GreenPinkHZK30Light BluePurplePinkHZK33Light BluePurplePink	HZK9A	Yellow Green	Purple	Pink
HZK11AYellow GreenLight BluePinkHZK11BYellow GreenLight BlueVerdureHZK11CYellow GreenLight BlueLight BlueHZK12AYellow GreenWhitePinkHZK12BYellow GreenWhiteVerdureHZK12CYellow GreenWhiteLight BlueHZK15Light BlueBlackPinkHZK16Light BlueYellow OcherPinkHZK18Light BluePinkPinkHZK20Light BlueOrangePinkHZK21Light BlueYellowPinkHZK22Light BlueYellowPinkHZK24Light BlueYellow GreenPinkHZK27Light BlueYellow GreenPinkHZK30Light BluePurplePinkHZK33Light BlueLight BluePink	HZK9B	Yellow Green	Purple	Verdure
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HZK11CYellow GreenLight BlueLight BlueHZK12AYellow GreenWhitePinkHZK12BYellow GreenWhiteVerdureHZK12CYellow GreenWhiteLight BlueHZK15Light BlueBlackPinkHZK16Light BlueYellow OcherPinkHZK18Light BluePinkPinkHZK20Light BlueOrangePinkHZK22Light BlueYellowPinkHZK24Light BlueYellowPinkHZK27Light BlueYellow GreenPinkHZK30Light BluePurplePinkHZK33Light BluePurplePink	HZK11A	Yellow Green	Light Blue	Pink
HZK12AYellow GreenWhitePinkHZK12BYellow GreenWhiteVerdureHZK12CYellow GreenWhiteLight BlueHZK15Light BlueBlackPinkHZK16Light BlueYellow OcherPinkHZK18Light BluePinkPinkHZK20Light BlueOrangePinkHZK22Light BlueYellowPinkHZK24Light BlueVerdurePinkHZK27Light BlueYellow GreenPinkHZK30Light BluePurplePinkHZK33Light BlueLight BluePink	HZK11B	Yellow Green	Light Blue	Verdure
HZK12BYellow GreenWhiteVerdureHZK12CYellow GreenWhiteLight BlueHZK15Light BlueBlackPinkHZK16Light BlueYellow OcherPinkHZK18Light BluePinkPinkHZK20Light BlueOrangePinkHZK22Light BlueYellowPinkHZK24Light BlueVerdurePinkHZK27Light BlueYellow GreenPinkHZK30Light BluePurplePinkHZK33Light BlueLight BluePink	HZK11C	Yellow Green	Light Blue	Light Blue
HZK12CYellow GreenWhiteLight BlueHZK15Light BlueBlackPinkHZK16Light BlueYellow OcherPinkHZK18Light BluePinkPinkHZK20Light BlueOrangePinkHZK22Light BlueVellowPinkHZK24Light BlueVerdurePinkHZK27Light BlueYellow GreenPinkHZK30Light BluePurplePinkHZK33Light BluePurplePink	HZK12A	Yellow Green	White	Pink
HZK15Light BlueBlackPinkHZK16Light BlueYellow OcherPinkHZK18Light BluePinkPinkHZK20Light BlueOrangePinkHZK22Light BlueYellowPinkHZK24Light BlueVerdurePinkHZK27Light BlueYellow GreenPinkHZK30Light BluePurplePinkHZK33Light BlueLight BluePurple	HZK12B	Yellow Green	White	Verdure
HZK16Light BlueYellow OcherPinkHZK18Light BluePinkPinkHZK20Light BlueOrangePinkHZK22Light BlueYellowPinkHZK24Light BlueVerdurePinkHZK27Light BlueYellow GreenPinkHZK30Light BluePurplePinkHZK33Light BlueLight BluePink	HZK12C	Yellow Green	White	Light Blue
HZK18Light BluePinkPinkHZK20Light BlueOrangePinkHZK22Light BlueYellowPinkHZK24Light BlueVerdurePinkHZK27Light BlueYellow GreenPinkHZK30Light BluePurplePinkHZK33Light BlueLight BluePink	HZK15	Light Blue	Black	Pink
HZK20Light BlueOrangePinkHZK22Light BlueYellowPinkHZK24Light BlueVerdurePinkHZK27Light BlueYellow GreenPinkHZK30Light BluePurplePinkHZK33Light BlueLight BluePink	HZK16	Light Blue	Yellow Ocher	Pink
HZK22Light BlueYellowPinkHZK24Light BlueVerdurePinkHZK27Light BlueYellow GreenPinkHZK30Light BluePurplePinkHZK33Light BlueLight BluePink	HZK18	Light Blue	Pink	Pink
HZK24Light BlueVerdurePinkHZK27Light BlueYellow GreenPinkHZK30Light BluePurplePinkHZK33Light BlueLight BluePink	HZK20	Light Blue	Orange	Pink
HZK27Light BlueYellow GreenPinkHZK30Light BluePurplePinkHZK33Light BlueLight BluePink	HZK22	Light Blue	Yellow	Pink
HZK30Light BluePurplePinkHZK33Light BlueLight BluePink	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



HZK Series

Package Dimensions



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

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