

HZK Series

Silicon Epitaxial Planar Zener Diodes for Stabilized Power Supply

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

> > Rev.3.00 May.14.2003

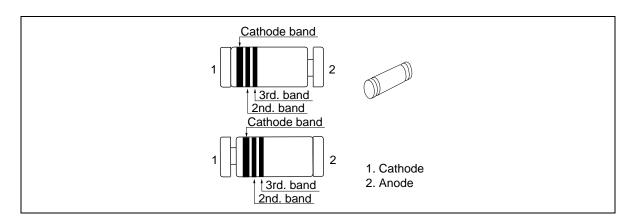
Features

- 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
Type	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	

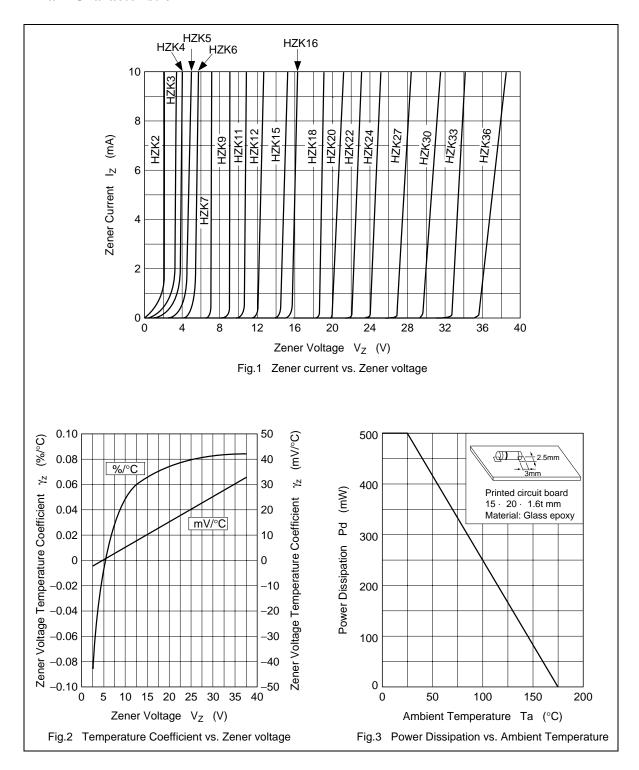
Note: Tested with DC.

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

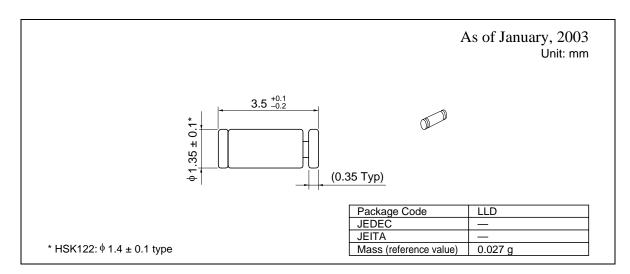
Mark Color Code

Туре	Cathode Band	Second Band	Third Band	
HZK2B	Yellow Green	Yellow Ocher	Verdure	
HZK2C	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	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	
HZK6B	Yellow Green	Verdure	Verdure	
HZK6C	Yellow Verdure	Verdure	Light Blue	
HZK7A	Yellow Green	Yellow Green	Pink	
HZK7B	Yellow Green	Yellow Green	Verdure	
HZK7C	Yellow Green	Yellow Green	Light Blue	
HZK9A	Yellow Green	Purple	Pink	
HZK9B	Yellow Green	Purple	Verdure	
HZK9C	Yellow Green	Purple	Light Blue	
HZK11A	Yellow Green	Light Blue	Pink	
HZK11B	Yellow Green	Light Blue	Verdure	
HZK11C	Yellow Green	Light Blue	Light Blue	
HZK12A	Yellow Green	White	Pink	
HZK12B	Yellow Green	White	Verdure	
HZK12C	Yellow Green	White	Light Blue	
HZK15	Light Blue	Black	Pink	
HZK16	Light Blue	Yellow Ocher	Pink	
HZK18	Light Blue	Pink	Pink	
HZK20	Light Blue	Orange	Pink	
HZK22	Light Blue	Yellow	Pink	
HZK24	Light Blue	Verdure	Pink	
HZK27	Light Blue	Yellow Green	Pink	
HZK30	Light Blue	Purple	Pink	
HZK33	Light Blue	Light Blue	Pink	
HZK36	Light Blue	White	Pink	

Main Characteristic



Package Dimensions



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