

HZK-LL Series

Silicon Planar Zener Diode for Hard Knee Low Noise

REJ03G0020-0300 Rev.3.00 Nov 09, 2007

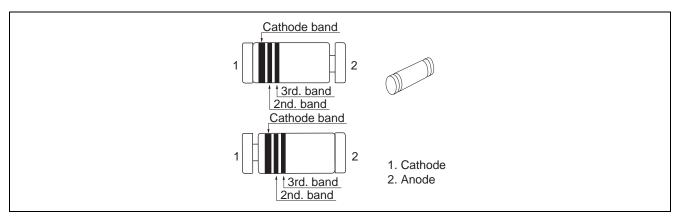
Features

- Low dynamic impedance and low noise in the low current region (approximately 1/10 lower than the current zeners).
- LLD package is suitable for high density surface mounting and high speed assembly.

Ordering Information Ordering Information

Part No.	Mark	Package Name	Package Code	
HZK-LL Series	Color Code	LLD	GLZZ0002ZA-A	

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit	
Power dissipation	Pd *	250	mW	
Junction temperature Tj		175	°C	
Storage temperature	Tstg	−55 to +175	°C	

Note: With P.C. Board.

Electrical Characteristics

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

	Ze	ener Volta	ige	Reverse Current Dynamic F			Resistance		Linearity*3		
		V _z (V) *1		I _R (nA)		Z _{ZT} (Ω)		$Z_{ZK}(\Omega)^{*2}$		ΔV _{Z1} (V)	$\Delta V_{Z2}(V)$
Part No.	Min	Max	Iz (mA)	Max	V _R (V)	Max	I _{ZT} (mA)	Тур	I _{zκ} (μA)	Max	Max
HZK2ALL	1.6	2.0	0.5	100	0.5	350	0.5	(1.2)	50	0.5	0.6
HZK2BLL	1.9	2.3									
HZK2CLL	2.2	2.6									
HZK3ALL	2.5	2.9	0.5	100	1.0	360	0.5	(1.2)	50	0.5	0.6
HZK3BLL	2.8	3.2									
HZK3CLL	3.1	3.5									
HZK4ALL	3.4	3.8	0.5	100	2.0	370	0.5	(1.5)	50	0.5	0.6
HZK4BLL	3.7	4.1									
HZK4CLL	4.0	4.4									
HZK5ALL	4.3	4.7	0.5	100	3.0	380	0.5	(1.5)	50	0.5	0.6
HZK5BLL	4.6	5.0									
HZK5CLL	4.9	5.3									

Notes: 1. Tested with DC.

2. Reference only.

3. $\Delta V_{Z1} = V_Z (I_Z = 0.5 \text{ mA}) - V_{Z1} (I_Z = 0.05 \text{ mA})$ $\Delta V_{Z2} = V_{Z1} (IZ = 0.05 \text{ mA}) - V_{Z2} (I_Z = 0.001 \text{ mA})$

Mark Color Code

Туре	Cathode Band	Second Band	Third Band	
HZK2ALL	Verdure	Yellow Ocher	Pink	
HZK2BLL	Verdure	Yellow Ocher	Blue	
HZK2CLL	Verdure	Yellow Ocher	Light Blue	
HZK3ALL	Verdure	Pink	Pink	
HZK3BLL	Verdure	Pink	Blue Light Blue	
HZK3CLL	Verdure	Pink		
HZK4ALL	Verdure	Orange	Pink	
HZK4BLL	Verdure	Orange	Blue	
HZK4CLL	Verdure	Orange	Light Blue	
HZK5ALL	Verdure	Yellow	Pink	
HZK5BLL	Verdure	Yellow	Blue	
HZK5CLL	Verdure	Yellow	Light Blue	

Main Characteristic

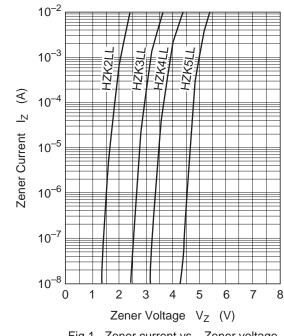
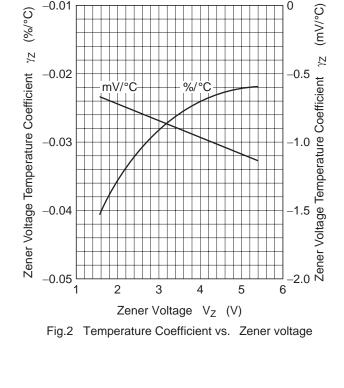


Fig.1 Zener current vs. Zener voltage



-0.01

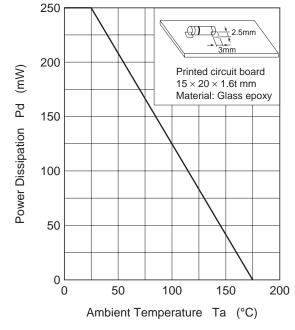
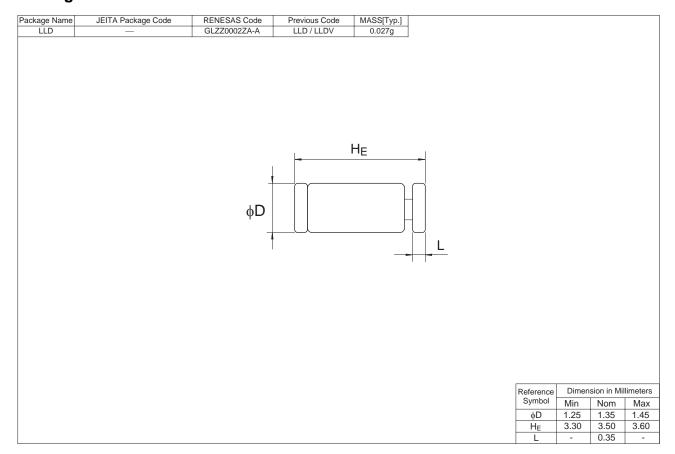


Fig.3 Power Dissipation vs. Ambient Temperature

Package Dimensions



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