

HZ-LL Series

Silicon Epitaxial Planar Zener Diode for Hard Knee Low Noise

REJ03G0183-0200Z

(Previous: ADE-208-119A)

Rev.2.00 Mar.11.2004

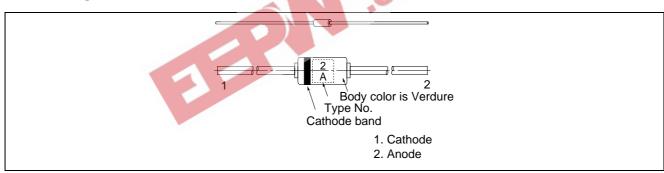
Features

- Vz-Iz characteristics are semi logarithmic linear from I_z = 1nA to 1mA and have sharper breakdown knees in a low current region, and also lower V_z temperature coefficients.
- Low dynamic impedance and low noise in the low current region (approximately 1/10 lower than the current zeners).

Ordering Information

Type No.	Mark	Package Code
HZ-LL Series	Type No.	DO-35

Pin Arrangement



HZ-LL Series

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	_

Electrical Characteristics

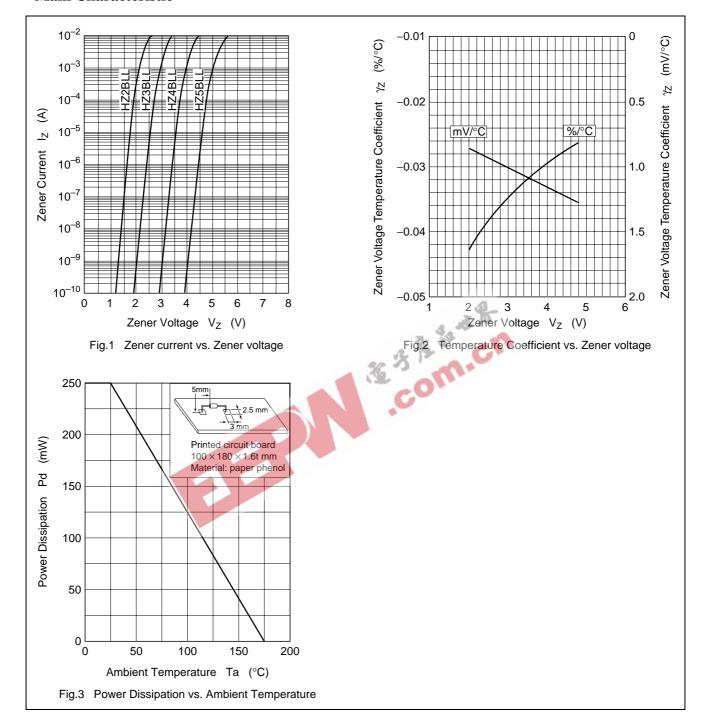
 $(Ta = 25^{\circ}C)$

												(1u - 23 C)
Туре	Grade	$V_{Z}(V)$	V _Z (V) * ¹		I _R (nA)		$Z_{ZT}(\Omega)$		$Z_{ZK}(k\Omega) *^2$		$\Delta V_{Z1}(V) *^3$	$\Delta V_{Z2}(V) *^3$
		Min	Max	I _z (mA)	Max	V _R (V)	Max	I _{ZT} (mA)	Тур	I _{zκ} (μA)	Max	Max
HZ2LL	Α	1.6	2.0	0.5	100	0.5	350	0.5	(1.2)	50	0.5	0.6
	В	1.9	2.3									
	С	2.2	2.6	_								
HZ3LL	Α	2.5	2.9	0.5	100	1.0	360	0.5	(1.2)	50	0.5	0.6
	В	2.8	3.2	_					4	gra-		
	С	3.1	3.5	_				- 4	水瓜	_		
HZ4LL	Α	3.4	3.8	0.5	100	2.0	370	0.5	(1.5)	50	0.5	0.6
	В	3.7	4.1	_			30	次!	4.0			
	С	4.0	4.4	_			132	OI				
HZ5LL	А	4.3	4.7	0.5	100	3.0	380	0.5	(1.5)	50	0.5	0.6
	В	4.6	5.0			<i>(,)</i>						
	С	4.9	5.3									

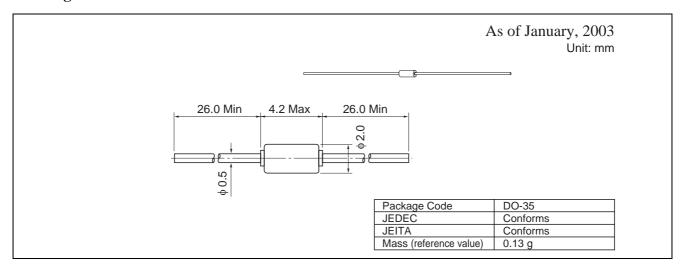
Notes: 1. Tested with DC.

- 2. Reference only.
- 3. $\Delta V_{Z1} = V_Z (I_Z = 0.5 \text{ mA}) V_{Z1} (I_Z = 0.05 \text{ mA})$ $\Delta V_{Z2} = V_{Z1} (IZ = 0.05 \text{ mA}) V_{Z2} (I_Z = 0.001 \text{ mA})$
- 4. Type No. is as follows; HZ2ALL, HZ2BLL, HZ5CLL.

Main Characteristic



Package Dimensions





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