

HZ-L Series

Silicon Epitaxial Planar Zener Diode for Low Noise Application

REJ03G0182-0200Z

(Previous: ADE-208-118A)

Rev.2.00 Mar.11.2004

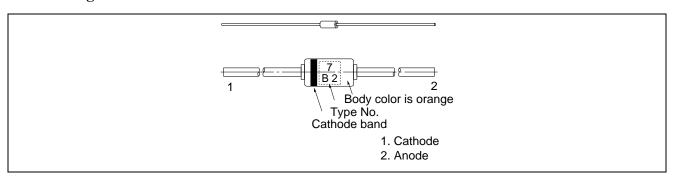
Features

- Diode noise level of this series is approximately 1/3-1/10 lower than the HZ series.
- Low leakage, low zener impedance and maximum power dissipation of 400 mW are ideally suited for stabilized power supply, etc.
- Wide spectrum from 5.2V through 38 V of zener voltage provide flexible application.

Ordering Information

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

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit	
Power dissipation	Pd	400	mW	
Junction temperature	Tj	175	°C	
Storage temperature	Tstg	-55 to +175	°C	

Electrical Characteristics

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

		Zener Voltage			Reverse Curre		rent Dynamic Resistance	
				Test		Test		Test
		Vz (V)*1		Condition	I _R (μA)	Condition	r _d (Ω)	Condition
Туре	Grade	Min	Max	I _z (mA)	Max	V _R (V)	Max	I _z (mA)
HZ6L	A1	5.2	5.5	0.5	1	2.0	150	0.5
	A2	5.3	5.6					
	A3	5.4	5.7					
	B1	5.5	5.8				80	0.5
	B2	5.6	5.9					
	B3	5.7	6.0					
	C1	5.8	6.1				60	0.5
	C2	6.0	6.3					
	C3	6.1	6.4					
HZ7L	A1	6.3	6.6	0.5	1	3.5	60	0.5
	A2	6.4	6.7	<u></u>				
	А3	6.6	6.9					
	B1	6.7	7.0	<u></u>				
	B2	6.9	7.2					
	B3	7.0	7.3					
	C1	7.2	7.6					
	C2	7.3	7.7	<u> </u>				
	C3	7.5	7.9					
HZ9L	A1	7.7	8.1	0.5	1	6.0	60	0.5
	A2	7.9	8.3					
	А3	8.1	8.5					
	B1	8.3	8.7					
	B2	8.5	8.9					
	B3	8.7	9.1					
	C1	8.9	9.3					
	C2	9.1	9.5					
	C3	9.3	9.7					
HZ11L	A1	9.5	9.9	0.5	1	8.0	80	0.5
	A2	9.7	10.1					
	A3	9.9	10.3					
	B1	10.2	10.6					
	B2	10.4	10.8	<u>—</u>				
	B3	10.7	11.1					

Note: 1. Tested with DC.

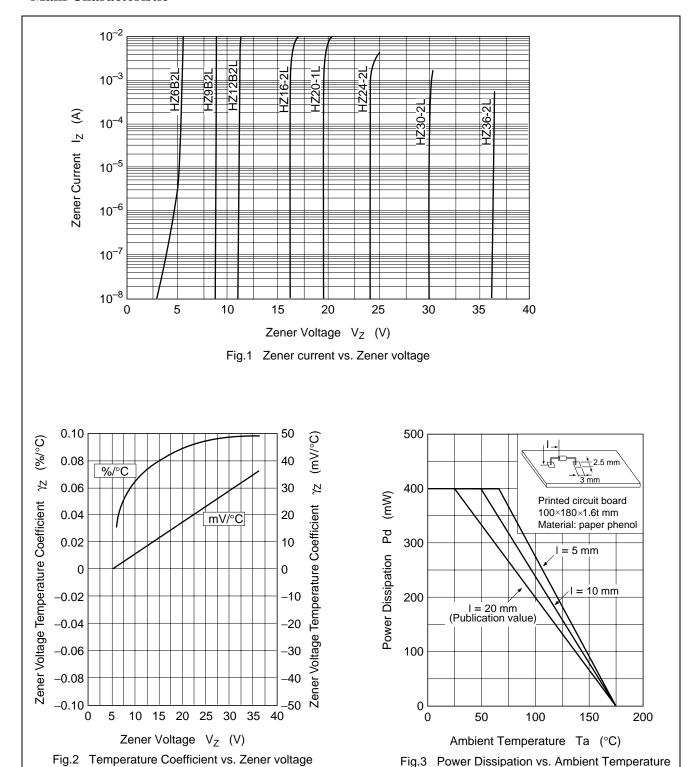
 $(Ta = 25^{\circ}C)$

		Zener Voltage			Reverse C	urrent	Dynamic Resistance	
		V (\0)*1		Test	I. (A)	Test	- (O)	Test Condition
Туре	Grade	V _z (V)* ¹ Min	Max	Condition I _Z (mA)	I _R (μA) Max	V _R (V)	r _d (Ω) Max	I _z (mA)
HZ11L	C1	10.9	11.3	0.5	1	8.0	80	0.5
IIZIIL	C2	11.1	11.6	0.5	Į.	0.0	00	0.5
	C3	11.4	11.9					
HZ12L	A1	11.6	12.1	0.5	1	10.5	80	0.5
112122	A2	11.9	12.4	0.5	'	10.5	00	0.5
	A3	12.2	12.7					
	B1	12.4	12.9					
	B2	12.6	13.1					
	B3	12.9	13.4					
	C1	13.2	13.7					
	C2	13.5	14.0					
	C3	13.8	14.3					
HZ15L	1	14.1	14.7	0.5	1	13.0	80	0.5
	2	14.5	15.1		·			0.0
	3	14.9	15.5					
HZ16L	1	15.3	15.9	0.5	1	14.0	80	0.5
	2	15.7	16.5		·			0.0
	3	16.3	17.1					
HZ18L	1	16.9	17.7	0.5	1	15.0	80	0.5
	2	17.5	18.3					
	3	18.1	19.0					
HZ20L	1	18.8	19.7	0.5	1	18.0	100	0.5
	2	19.5	20.4					
	3	20.2	21.1					
HZ22L	1	20.9	21.9	0.5	1	20.0	100	0.5
	2	21.6	22.6					
	3	22.3	23.3					
HZ24L	1	22.9	24.0	0.5	1	22.0	120	0.5
	2	23.6	24.7					
	3	24.3	25.5					
HZ27L	1	25.2	26.6	0.5	1	24.0	150	0.5
	2	26.2	27.6					
	3	27.2	28.6					
HZ30L	1	28.2	29.6	0.5	1	27.0	200	0.5
	2	29.2	30.6					
	3	30.2	31.6					
HZ33L	1	31.2	32.6	0.5	1	30.0	250	0.5
	2	32.2	33.6					
	3	33.2	34.6					
HZ36L	1	34.2	35.7	0.5	1	33.0	300	0.5
	2	35.3	36.8					
	3	36.4	38.0					

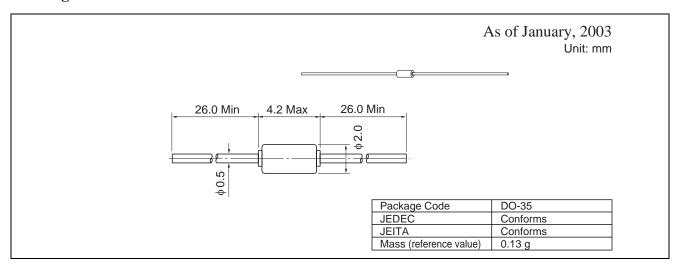
Note: 1. Tested with DC.

2. Type No. is as follows; HZ6A1L, HZ6A2L, HZ36-3L

Main Characteristic



Package Dimensions



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