



Zener diode

Features

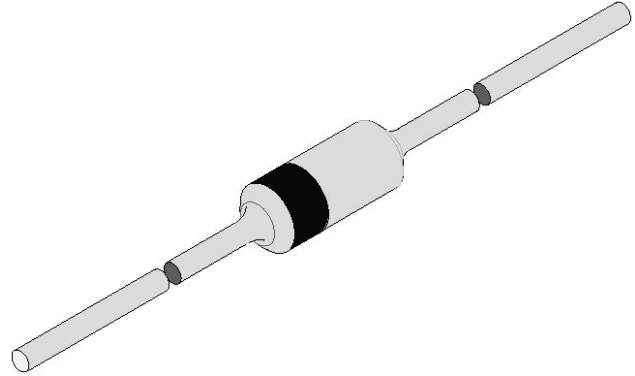
Low leakage, low zener impedance and maximum Power dissipation of 500 mW are ideally suited for stabilized power supply, etc.

Applications

Voltage stabilization

Construction

Silicon epitaxial planar



Absolute Maximum Ratings

$T_j=25^{\circ}\text{C}$

Parameter	Symbol	Value	Unit
Power dissipation	P_V	500	mW
Junction temperature	T_j	175	$^{\circ}\text{C}$
Storage temperature range	T_{stg}	-65~+175	$^{\circ}\text{C}$

Electrical Characteristics

($T_a = 25^{\circ}\text{C}$)

Type	Grade	Zener Voltage		Reverse Current			Dynamic Resistance	
		V_Z (V)*1		Test Condition	I_R (μA)	Test Condition	r_d (Ω)	Test Condition
		Min	Max	I_Z (mA)	Max	V_R (V)	Max	I_Z (mA)
HZ2	A1	1.6	1.8	5	25	0.5	100	5
	A2	1.7	1.9					
	A3	1.8	2.0					
	B1	1.9	2.1	5	5	0.5	100	5
	B2	2.0	2.2					
	B3	2.1	2.3					
	C1	2.2	2.4					
	C2	2.3	2.5					
	C3	2.4	2.6					
HZ3	A1	2.5	2.7	5	5	0.5	100	5
	A2	2.6	2.8					
	A3	2.7	2.9					
	B1	2.8	3.0					
	B2	2.9	3.1					
	B3	3.0	3.2					
	C1	3.1	3.3					
	C2	3.2	3.4					
	C3	3.3	3.5					



HZ Series

HZ4	A1	3.4	3.6	5	5	1.0	100	5
	A2	3.5	3.7					
	A3	3.6	3.8					
	B1	3.7	3.9					
	B2	3.8	4.0					
	B3	3.9	4.1					
	C1	4.0	4.2					
	C2	4.1	4.3					
	C3	4.2	4.4					
HZ5	A1	4.3	4.5	5	5	1.5	100	5
	A2	4.4	4.6					
	A3	4.5	4.7					
	B1	4.6	4.8					
	B2	4.7	4.9					
	B3	4.8	5.0					
	C1	4.9	5.1					
	C2	5.0	5.2					
	C3	5.1	5.3					
HZ6	A1	5.2	5.5	5	5	2.0	40	5
	A2	5.3	5.6					
	A3	5.4	5.7					
	B1	5.5	5.8					
	B2	5.6	5.9					
	B3	5.7	6.0					
	C1	5.8	6.1					
	C2	6.0	6.3					
	C3	6.1	6.4					
HZ7	A1	6.3	6.6	5	1	3.5	15	5
	A2	6.4	6.7					
	A3	6.6	6.9					
	B1	6.7	7.0					
	B2	6.9	7.2					
	B3	7.0	7.3					
	C1	7.2	7.6					
	C2	7.3	7.7					
	C3	7.5	7.9					
HZ9	A1	7.7	8.1	5	1	5.0	20	5
	A2	7.9	8.3					
	A3	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					
HZ11	A1	9.5	9.9	5	1	7.5	25	5
	A2	9.7	10.1					
	A3	9.9	10.3					
	B1	10.2	10.6					
	B2	10.4	10.8					



HZ Series

	B3	10.7	11.1					
	C1	10.9	11.3					
	C2	11.1	11.6					
	C3	11.4	11.9					
HZ12	A1	11.6	12.1	5	1	9.5	35	5
	A2	11.9	12.4					
	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	12.5	14.0					
	C3	13.8	14.3					
HZ15	1	14.1	14.7	5	1	11.0	40	5
	2	14.5	15.1					
	3	14.9	15.5					
HZ16	1	15.3	15.9	5	1	12.0	45	5
	2	15.7	16.5					
	3	16.3	17.1					
HZ18	1	16.9	17.7	5	1	13.0	55	5
	2	17.5	18.3					
	3	18.1	19.0					
HZ20	1	18.8	19.7	2	1	15.0	60	2
	2	19.5	20.4					
	3	20.2	21.1					
HZ22	1	20.9	21.9	2	1	17.0	65	2
	2	21.6	22.6					
	3	22.3	23.3					
HZ24	1	22.9	24.0	2	1	19.0	70	2
	2	23.6	24.7					
	3	24.3	25.5					
HZ27	1	25.2	26.6	2	1	21.0	80	2
	2	26.2	27.6					
	3	27.2	28.6					
HZ30	1	28.2	29.6	2	1	23.0	100	2
	2	29.2	30.6					
	3	30.2	31.6					
HZ33	1	31.2	32.6	2	1	25.0	120	2
	2	32.2	33.6					
	3	33.2	34.6					
HZ36	1	34.2	35.7	2	1	27.0	140	2
	2	35.3	36.8					
	3	36.4	38.0					

Note ; 1. Tested with DC



HZ Series

Characteristics ($T_j=25^\circ\text{C}$ unless otherwise specified)

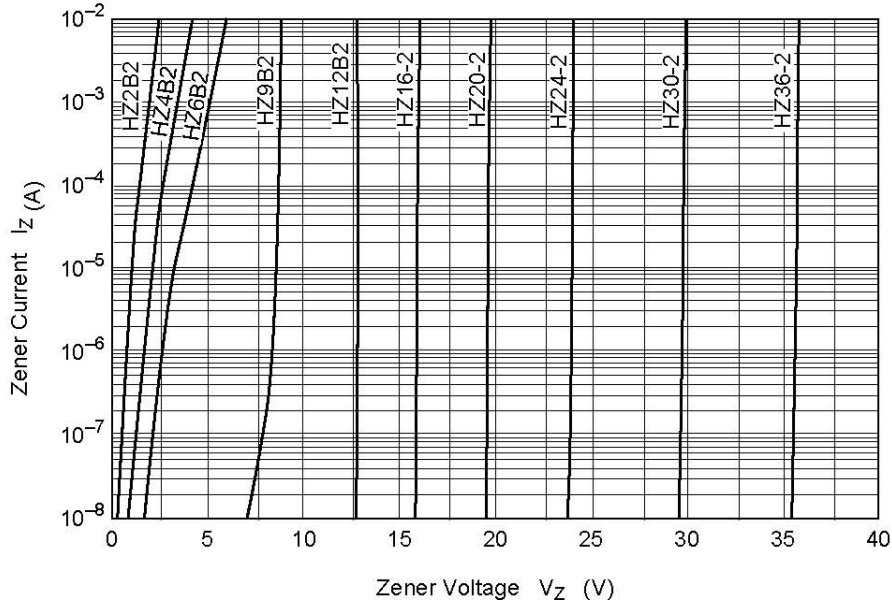


Fig.1 Zener current vs. Zener voltage

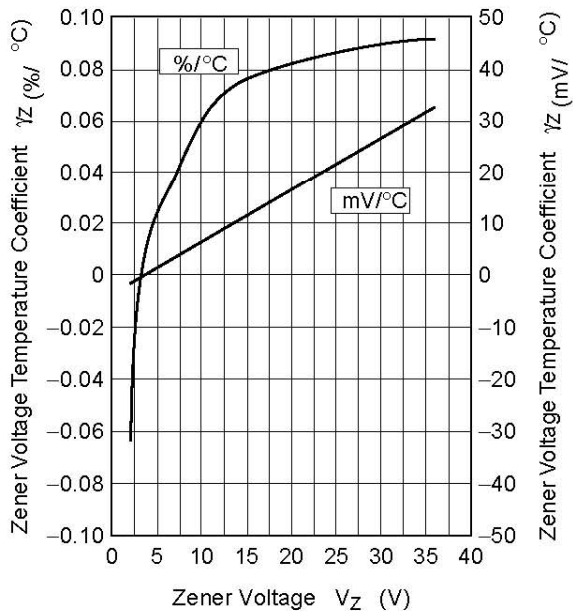


Fig.2 Temperature Coefficient vs. Zener voltage

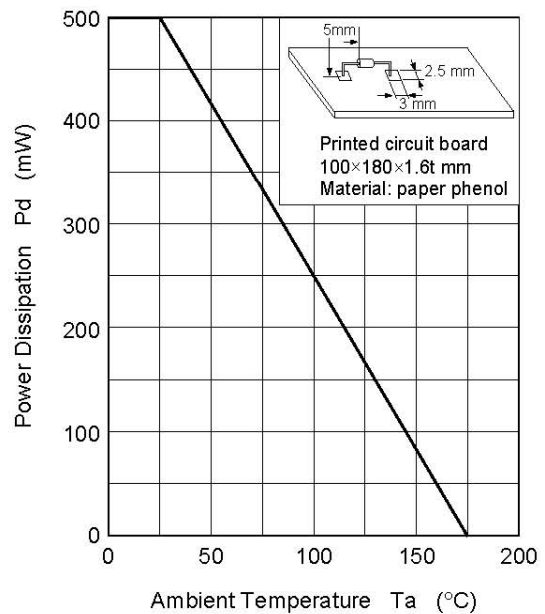
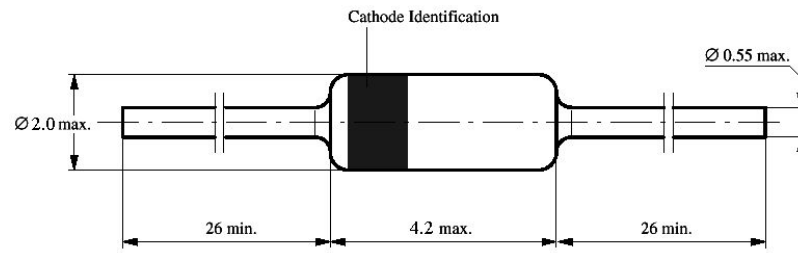


Fig.3 Power Dissipation vs. Ambient Temperature



Dimensions in mm



Standard Glass Case JEDEC DO 35