



Zener diode

Features

- 1. Low leakage
- 2. Low zener impedance
- 3. High reliability
- 4. Small surface mounting type



Applications

Voltage stabilization

Absolute Maximum Ratings

T_j=25 °C

Parameter	Symbol	Value	Unit
Power dissipation	P _d	500	mW
Junction temperature	T _j	175	°C
Storage temperature range	T _{stg}	-55~+175	°C

Stresses exceeding maximum ratings may damage the device. Maximum ratings are stress ratings only. Functional operation above the recommended operating conditions is not implied. Extended exposure to stresses above the recommended operating conditions may affect device reliability.

Electrical Characteristics

T_j=25 °C

Type	Grade	Zener Voltage			Dynamic Resistance		Reverse Current		
		V _Z (V)		Test Condition	r _d (Ω)	Test Condition	I _R (μA)	Test Condition	
		Min	Max	I _Z (mA)	Max	I _Z (mA)	Max	V _R (V)	
LH	A1	1.6	1.8	5	100	5	25	0.5	
	A2	1.7	1.9						
	A3	1.8	2.0						
	2	B1	1.9	2.1	5	100	5	5	0.5
		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					



Type LH	Grade	Zener Voltage		Test Condition	Dynamic Resistance		Reverse Current	
		V_Z (V)			r_d (Ω)	Test Condition	I_R (μA)	Test Condition
		Min	Max	I_Z (mA)	Max	I_Z (mA)	Max	V_R (V)
3	A1	2.5	2.7	5	100	5	5	0.5
	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					
4	A1	3.4	3.6	5	100	5	5	1.0
	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					
5	A1	4.3	4.5	5	100	5	5	1.5
	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					
6	A1	5.2	5.5	5	40	5	5	2.0
	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					
7	A1	6.3	6.6	5	15	5	1	3.5
	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					



Type LH	Grade	Zener Voltage		Dynamic Resistance		Reverse Current		
		V _Z (V)		Test Condition	r _d (Ω)	Test Condition	I _R (μA)	Test Condition
		Min	Max	I _Z (mA)	Max	I _Z (mA)	Max	V _R (V)
9	A1	7.7	8.1	5	20	5	1	5.0
	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					
11	A1	9.5	9.9	5	25	5	1	7.5
	A2	9.7	10.1					
	A3	9.9	10.3					
	B1	10.2	10.6					
	B2	10.4	10.8					
	B3	10.7	11.1					
	C1	10.9	11.3					
	C2	11.1	11.6					
	C3	11.4	11.9					
12	A1	11.6	12.1	5	35	5	1	9.5
	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	13.5	14.0					
	C3	13.8	14.3					
15	1	14.1	14.7	5	40	5	1	11.0
	2	14.5	15.1					
	3	14.9	15.5					
16	1	15.3	15.9	5	45	5	1	12.0
	2	15.7	16.5					
	3	16.3	17.1					
18	1	16.9	17.7	5	55	5	1	13.0
	2	17.5	18.3					
	3	18.1	19.0					
20	1	18.8	19.7	2	60	2	1	15.0
	2	19.5	20.4					
	3	20.2	21.1					
22	1	20.9	21.9	2	65	2	1	17.0
	2	21.6	22.6					
	3	22.3	23.3					
24	1	22.9	24.0	2	70	2	1	19.0
	2	23.6	24.7					
	3	24.3	25.5					

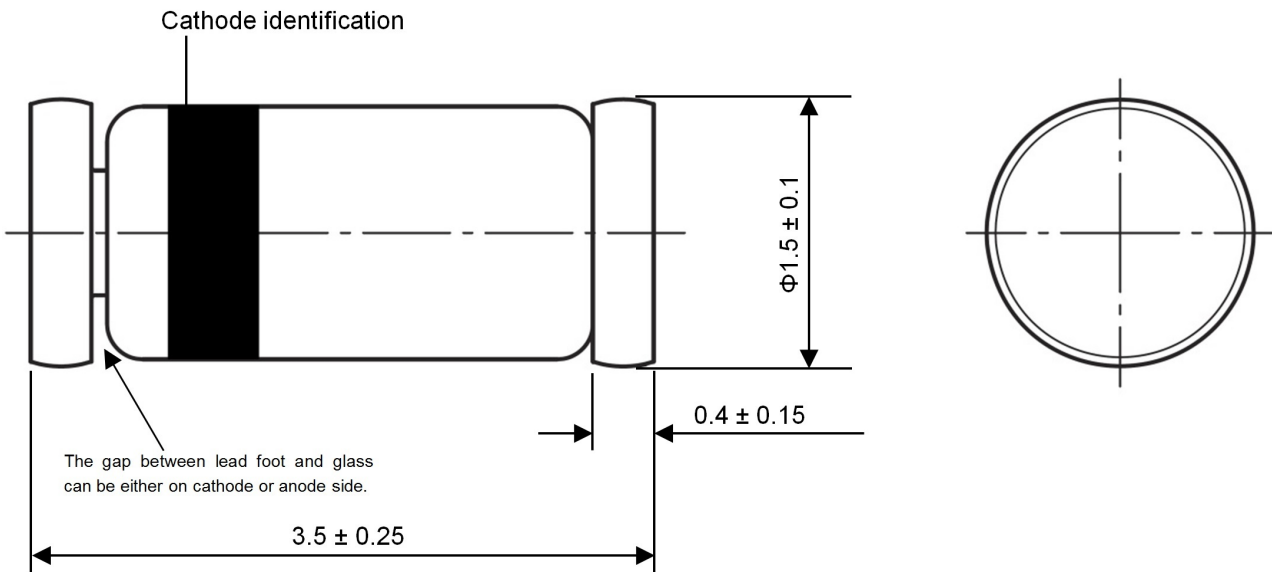


Type LH	Grade	Zener Voltage		Test Condition	Dynamic Resistance		Reverse Current	
		V_Z (V)			r_d (Ω)	Test Condition	I_R (μA)	Test Condition
		Min	Max	I_Z (mA)	Max	I_Z (mA)	Max	V_R (V)
27	1	25.2	26.6	2	80	2	1	21.0
	2	26.2	27.6					
	3	27.2	28.6					
30	1	28.2	29.6	2	100	2	1	23.0
	2	29.2	30.6					
	3	30.2	31.6					
33	1	31.2	32.6	2	120	2	1	25.0
	2	32.2	33.6					
	3	33.2	34.6					
36	1	34.2	35.7	2	140	2	1	27.0
	2	35.3	36.8					
	3	36.4	38.0					

Note: 1. Tested with DC.

2. Type No. is as follows: 2A1, 2A2, 36-3.

Dimensions in mm



Glass Case
Mini Melf / SOD-80
JEDEC DO-213 AA