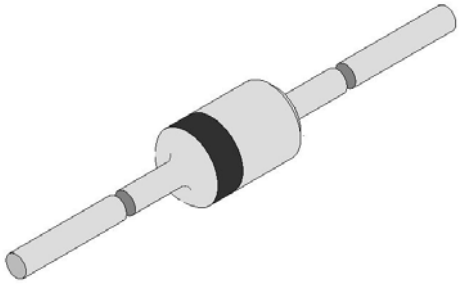
Zener diode

Features

1. High reliability
2. Wide voltage range available
3. Glass package
4. High temp soldering:250℃ for 10 seconds at terminals



Applications

Voltage stabilization

Absolute Maximum Ratings

T_j=25℃

Parameter	Test Conditions	Type	Symbol	Value	Unit
Power dissipation	I=4mm T_L≤25℃		P_V	2	W
Junction temperature			T_j	175	℃
Storage temperature range			T_{stg}	-65~+175	℃

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℃

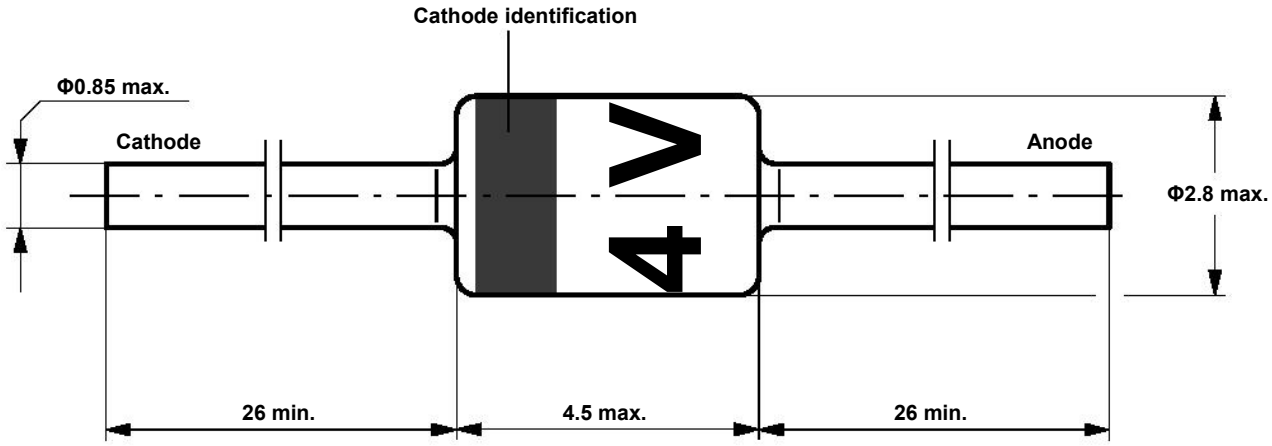
Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	I_F=200mA		V_F			1.2	V

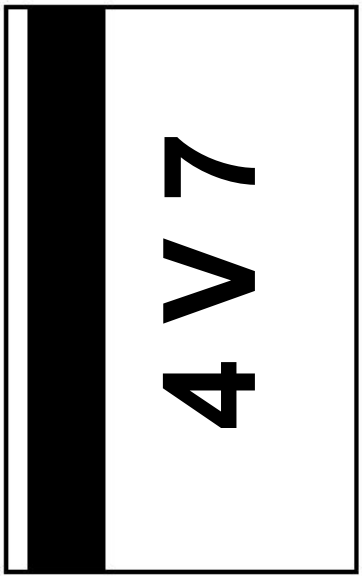
T_j=25℃

Type	V_Z	I_{ZT}	Z_{ZT}	Z_{ZK}	I_{ZK}	I_R	V_R	I_S
BZX2C	V	mA	Ω	Ω	mA	μ A	V	mA
3V6	3.6	139	5	400	1.0	80	1	504
3V9	3.9	126	5	400	1.0	30	1	468
4V3	4.3	116	4.5	400	1.0	20	1	434
4V7	4.7	106	4.5	550	1.0	5	1	386
5V1	5.1	98	3.5	600	1.0	5	1	356
5V6	5.6	89.5	2.5	650	1.0	5	2	324
6V2	6.2	80.5	1.5	700	1.0	5	3	292
6V8	6.8	73.5	2	700	1.0	5	4	266
7V5	7.5	66.5	2	700	0.5	5	5	242
8V2	8.2	61	2.3	700	0.5	5	6	220
9V1	9.1	55	2.5	700	0.5	2	7	200
10	10	50	3.5	700	0.25	3	7.6	182
11	11	45.5	4	700	0.25	1	8.4	166
12	12	41.5	4.5	700	0.25	1	9.1	152
13	13	38.5	5	700	0.25	0.5	9.9	138
15	15	33.4	7	700	0.25	0.5	11.4	122
16	16	31.2	8	700	0.25	0.3	12.2	114
18	18	27.8	10	750	0.25	0.5	13.7	100
20	20	25	11	750	0.25	0.5	15.2	90
22	22	22.8	12	750	0.25	0.5	16.7	82
24	24	20.8	13	750	0.25	0.5	18.2	76
27	27	18.5	18	750	0.25	0.5	20.6	68
30	30	16.6	20	1000	0.25	0.5	22.5	60
33	33	15.1	23	1000	0.25	0.5	25.1	55
36	36	13.9	25	100	0.25	0.5	27.4	50
39	39	12.8	30	1000	0.25	0.5	29.7	47
43	43	11.6	35	1500	0.25	0.5	32.7	43
47	47	10.6	40	1500	0.25	0.5	35.8	39
51	51	9.8	48	1500	0.25	0.5	36.6	36
56	56	9	55	2000	0.25	0.5	42.6	32
62	62	8.1	60	2000	0.25	0.5	47.1	29
68	68	7.4	75	2000	0.25	0.5	51.7	27
75	75	6.7	90	2000	0.25	0.5	56.0	24

1. Tested with pulses tp =20 ms
2. Valid provided that leads are kept at ambient temperature at a distance of 8mm form case.

Dimensions in mm



Standard Glass Case
JEDEC DO-41

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