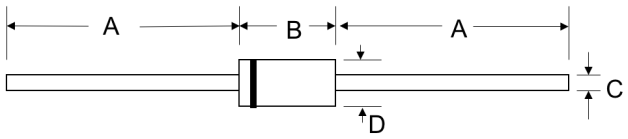
1W AXIAL LEAD ZENER DIODES

Features

- Low Zener impedance.
- High reliability chips.
- Halogen free and RoHS compliant
- Lead-free finish



DO-41

Mechanical Characteristics

- CASE: DO-41 Molded plastic package.
- Mounting Position: Any
- Polarity: Cathode by color band
- Terminal: Solder plated

REF.	DIMENSIONS			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	25.4	---	1.000	---
B	4.20	5.20	0.165	0.205
C	0.65	0.90	0.026	0.034
D	2.10	2.85	0.083	0.112

Maximum Ratings and Characteristics @ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Value	Units
Power Dissipation	P_D	1	W
Thermal Resistance Junction To Ambient Air	$R_{\theta JA}$	100	°C/W
Thermal Resistance Junction To Leads	$R_{\theta JL}$	25	°C/W
Maximum Forward Voltage @I_F=200mA	V_F	1.2	V
Storage Temperature Range	T_{STG}	-55 to 150	°C
Operating Junction Temperature Range	T_J	-55 to 150	°C

Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified).

Part Number	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	VZ @IZT		ZZT@IZT	ZZK@IZK	IZK	IR@VR		IZM
	V	mA	Ω	Ω	m A	μA	V	mA
1N4728	3.3	76.0	10	400	1	100	1	276
1N4729	3.6	69.0	10	400	1	100	1	252
1N4730	3.9	64.0	9	400	1	50	1	234
1N4731	4.3	58.0	9	400	1	10	1	217
1N4732	4.7	53.0	8	500	1	10	1	193
1N4733	5.1	49.0	7	550	1	10	1	178
1N4734	5.6	45.0	5	600	1	10	2	162
1N4735	6.2	41.0	2	700	1	10	3	146
1N4736	6.8	37.0	3.5	700	1	10	4	133
1N4737	7.5	34.0	4	700	0.5	10	5	121
1N4738	8.2	314.0	4.5	700	0.5	10	6	110
1N4739	9.1	28.0	5	700	0.5	10	7	100
1N4740	10	25.0	7	700	0.25	10	7.6	91
1N4741	11	23.0	8	700	0.25	5	8.4	83
1N4742	12	21.0	9	700	0.25	5	9.1	76
1N4743	13	19.0	10	700	0.25	5	9.9	69
1N4744	15	17.0	14	700	0.25	5	11.4	61
1N4745	16	15.5	16	700	0.25	5	12.2	57
1N4746	18	14.0	20	750	0.25	5	13.7	50
1N4747	20	12.5	22	750	0.25	5	15.2	45
1N4748	22	11.5	23	750	0.25	5	16.7	41
1N4749	24	10.5	258	750	0.25	5	18.2	38
1N4750	27	9.5	35	750	0.25	5	20.6	34
1N4751	30	8.5	40	1000	0.25	5	22.8	30
1N4752	33	7.5	45	1000	0.25	5	25.1	27
1N4753	36	7.0	50	1000	0.25	5	27.4	25
1N4754	39	6.5	60	1000	0.25	5	29.7	23
1N4755	43	6.0	70	1500	0.25	5	32.7	22
1N4756	47	5.5	80	1500	0.25	5	35.8	19
1N4757	51	5.0	95	1500	0.25	5	38.8	18
1N4758	56	4.5	110	2000	0.25	5	42.6	16
1N4759	62	4.0	125	2000	0.25	5	47.1	14

Part Number	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	VZ @IZT		ZZT@IZT	ZZK@IZK	IZK	IR@VR		IZM
	V	mA	Ω	Ω	m A	μA	V	mA
1N4760	68	3.7	150	2000	0.25	5	51.7	13
1N4761	75	3.3	175	2000	0.25	5	56	12
1N4762	82	3.0	200	3000	0.25	5	62.2	11
1N4763	91	2.8	250	3000	0.25	5	69.2	10
1N4764	100	2.5	350	3000	0.25	5	76	9
Z1110	110	2.3	450	4000	0.25	5	83.6	8.6
Z1120	120	2.0	550	4500	0.25	5	91.2	7.8
Z1130	130	1.9	700	5000	0.25	5	98.8	7
Z1150	150	1.7	1000	6000	0.25	5	114	6.4
Z1160	160	1.6	1100	6500	0.25	5	121.6	5.8
Z1180	180	1.4	1200	7000	0.25	5	136.8	5.2
Z1200	200	1.2	1900	9990	0.25	5	152	4.7
Z1220	220	1.0	1600	8000	0.25	5	167.2	4
Z1240	240	0.9	1800	8500	0.25	5	182.4	3.8
Z1250	250	0.9	2000	9000	0.25	5	190	3.6
Z1270	270	0.8	2100	9000	0.25	5	205	3.3
Z1300	300	0.8	2300	9500	0.25	5	228	3

Typical Characteristics

Power Temperature Derating Curve