

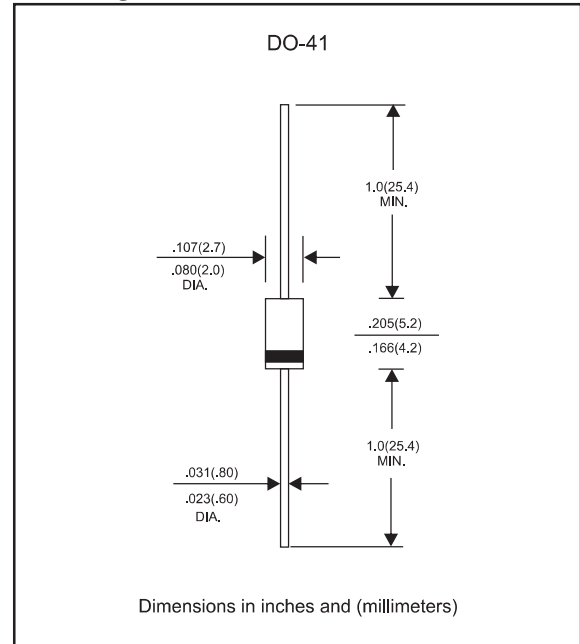
Features

- High reliability
- Very sharp reverse characteristic
- Wide zener reverse voltage range 5.1V to 100 V.
- Low reverse current level
- VZ-tolerance $\pm 5\%$
- Lead-free parts meet environmental standards of MIL-STD-19500 /228
- Suffix "-H" indicates Halogen-free parts

Mechanical data

- Epoxy : UL94-V0 rated flame retardant
- Case : Molded plastic, DO-41
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guranteed
- Polarity: Color band denotes cathode end
- Mounting Position : Any

Package outline



MAXIMUM RATINGS (at $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage	$I_F = 200 \text{ mA}$	V_F			1.20	V
Power dissipation	$T_{amb} \leq 25^\circ\text{C}$	P_D			1000	mW
Operating junction temperature range		T_J	-65		+150	$^\circ\text{C}$
Storage temperature range		T_{STG}	-65		+150	$^\circ\text{C}$

These ratings are limiting values above which the serviceability of the diode may be impaired

Electrical characteristics (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Type	Zener Voltage Range				Dynamic Resistance			Reverse Current		Maximum Surge Current	Maximum Regulator Current
	VZL (V) min	VZN (V) nom	VZH (V) max	IT(mA)	ZZT (Ω) max	ZZK (Ω) max	IZK (mA)	IR (μA)	VR(V)	I _{ZSM} (mA)	I _{ZM} (mA)
1N4733A	4.84	5.10	5.36	49.0	7	550	1.00	10	1.0	890	178
1N4734A	5.32	5.60	5.88	45.0	5	600	1.00	10	2.0	810	162
1N4735A	5.89	6.20	6.51	41.0	2	700	1.00	10	3.0	730	146
1N4736A	6.46	6.80	7.14	37.0	4	700	1.00	10	4.0	660	133
1N4737A	7.12	7.50	7.88	34.0	4	700	0.50	10	5.0	605	121
1N4738A	7.79	8.20	8.61	31.0	5	700	0.50	10	6.0	550	110
1N4739A	8.64	9.10	9.56	28.0	5	700	0.50	10	7.0	500	100
1N4740A	9.50	10.00	10.50	25.0	7	700	0.25	10	7.6	454	91
1N4741A	10.45	11.00	11.55	23.0	8	700	0.25	5	8.4	414	83
1N4742A	11.40	12.00	12.60	21.0	9	700	0.25	5	9.1	380	76
1N4743A	12.35	13.00	13.65	19.0	10	700	0.25	5	9.9	344	69
1N4744A	14.25	15.00	15.75	17.0	14	700	0.25	5	11.4	304	61
1N4745A	15.20	16.00	16.80	15.5	16	700	0.25	5	12.2	285	57
1N4746A	17.10	18.00	18.90	14.0	20	750	0.25	5	13.7	250	50
1N4747A	19.00	20.00	21.00	12.5	22	750	0.25	5	15.2	225	45
1N4748A	20.90	22.00	23.10	11.5	23	750	0.25	5	16.7	205	41
1N4749A	22.80	24.00	25.20	10.5	25	750	0.25	5	18.2	190	38
1N4750A	25.65	27.00	28.35	9.5	35	750	0.25	5	20.6	170	34
1N4751A	28.50	30.00	31.50	8.5	40	1000	0.25	5	22.8	150	30
1N4752A	31.35	33.00	34.65	7.5	45	1000	0.25	5	25.1	135	27
1N4753A	34.20	36.00	37.80	7.0	50	1000	0.25	5	27.4	125	25
1N4754A	37.05	39.00	40.95	6.5	60	1000	0.25	5	29.7	115	23
1N4755A	40.85	43.00	45.15	6.0	70	1500	0.25	5	32.7	110	22
1N4756A	44.65	47.00	49.35	5.5	80	1500	0.25	5	35.8	95	19
1N4757A	48.45	51.00	53.55	5.0	95	1500	0.25	5	38.8	90	18
1N4758A	53.20	56.00	58.80	4.5	110	2000	0.25	5	42.6	80	16
1N4759A	58.90	62.00	65.10	4.0	125	2000	0.25	5	47.1	70	14
1N4760A	64.60	68.00	71.40	3.7	150	2000	0.25	5	51.7	65	13
1N4761A	71.25	75.00	78.75	3.3	175	2000	0.25	5	56.0	60	12
1N4762A	77.90	82.00	86.10	3.0	200	3000	0.25	5	62.2	55	11
1N4763A	86.45	91.00	95.55	2.8	250	3000	0.25	5	69.2	50	10
1N4764A	95.00	100.00	105.00	2.5	350	3000	0.25	5	76.0	45	9

Rating and characteristic curves (1N4733A THRU 1N4764A)

Figure 1 - Breakdown characteristics

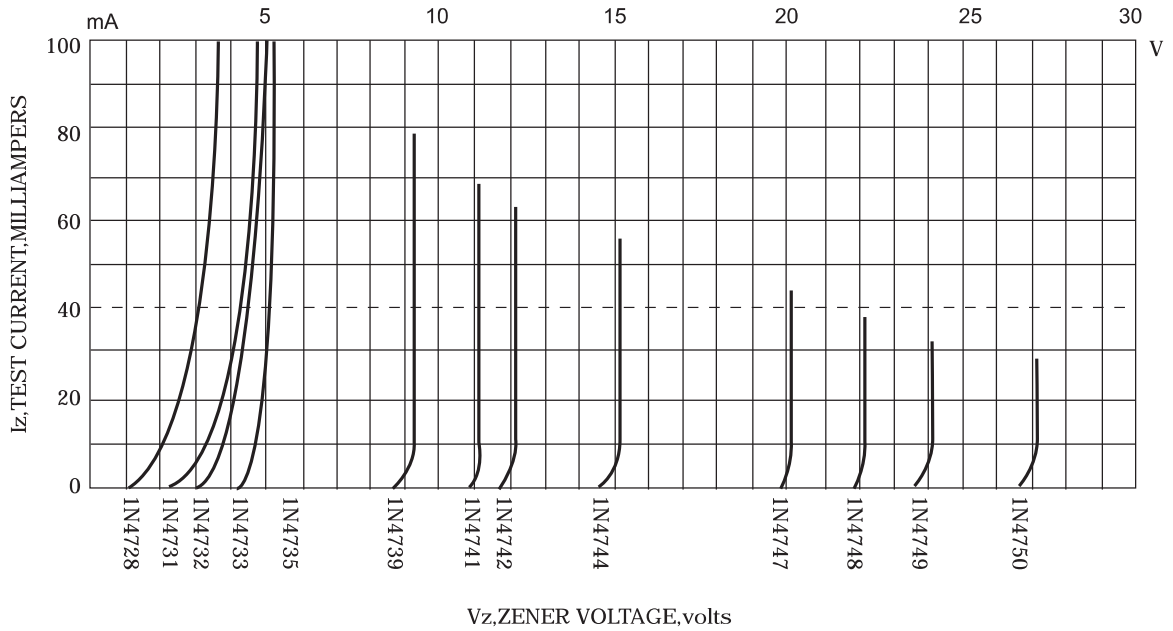
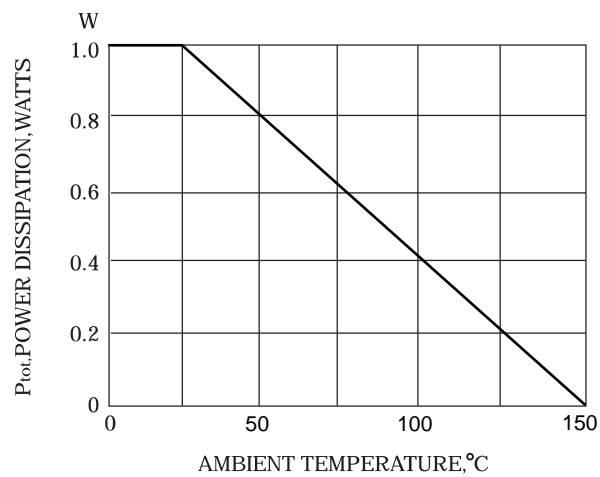


Figure 2 - Admissible power dissipation versus ambient temperature



1N4733A THRU 1N4764A

1000mW Axial Lead Zener
 Diodes - 5.1V-100V

Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode	