

**SEMICONDUCTOR**

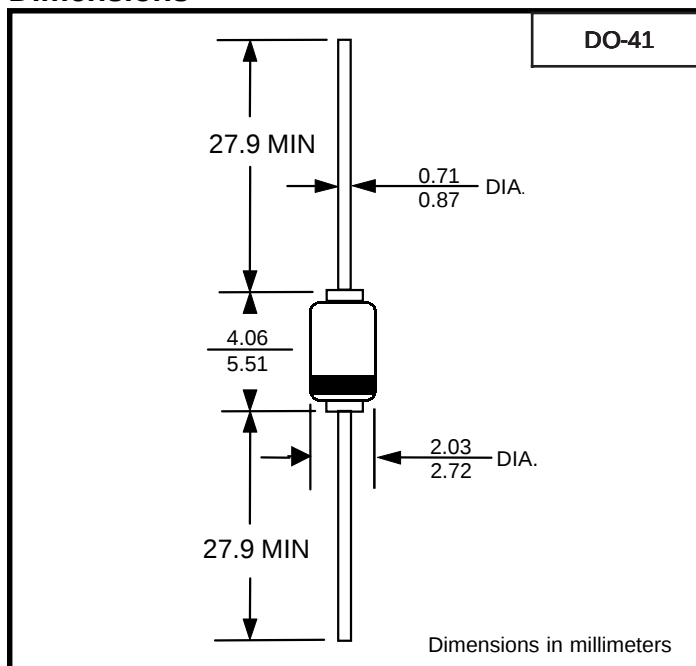
TECHNICAL SPECIFICATION

**1N4728A
THRU
1N4757A****1W 5% DO-41 ZENER DIODE****Absolute Maximum Ratings (Ta=25°C)**

Items	Symbol	Ratings	Unit
Power Dissipation	P_{TOT}	1.0	W
Power Derating (above 50 °C)		6.67	mW/°C
Forward Voltage @If = 200 mA	Vf	1.5	V
Vz Tolerance		5	%
Junction Temp.	T _J	-65 to 175	°C
Storage Temp.	T _{STG}	-65 to 175	°C

Mechanical Data

Items	Materials
Package	DO-41
Case	Hermetically sealed glass
Lead/Finish	Double stud/Solder Plating
Chip	Glass Passivated

Dimensions**Electrical Characteristics (Ta=25°C)**

TYPE	ZENER VOLTAGE		MAX ZENER IMPEDANCE		MAX ZENER IMPEDANCE		MAXIMUM REVERSE CURRENT		TEMP. COEFF.
	Vz(V)	@Izt(mA)	Rz (ohms)	@Izt(mA)	Rz (ohms)	@Izt(mA)	@VR (V)	IR (uA)	dvz (%/ °C)
1N4728A	3.3	76	10.0	76	400	1.0	1.0	100	-0.06
1N4729A	3.6	69	10.0	69	400	1.0	1.0	100	-0.06
1N4730A	3.9	64	9.0	64	400	1.0	1.0	50	-0.05
1N4731A	4.3	58	9.0	58	400	1.0	1.0	10	-0.03
1N4732A	4.7	53	8.0	53	500	1.0	1.0	10	-0.01
1N4733A	5.1	49	7.0	49	550	1.0	1.0	10	0.01
1N4734A	5.6	45	5.0	45	600	1.0	2.0	10	0.03
1N4735A	6.2	41	2.0	41	700	1.0	3.0	10	0.04
1N4736A	6.8	37	3.5	37	700	1.0	4.0	10	0.05
1N4737A	7.5	34	4.0	34	700	0.5	5.0	10	0.05
1N4738A	8.2	31	4.5	31	700	0.5	6.0	10	0.06
1N4739A	9.1	28	5.0	28	700	0.5	7.0	10	0.06
1N4740A	10.0	25	7.0	25	700	0.25	7.6	10	0.07

Electrical Characteristics (Ta=25°C)

TYPE	ZENER VOLTAGE		MAX ZENER IMPEDANCE		MAX ZENER IMPEDANCE I _{zt} = 0.25mA	MAXIMUM REVERSE CURRENT		TEMP. COEFF.
	V _z (V)	@I _{zt} (mA)	R _z (ohms)	@I _{zt} (mA)	R _z (ohms)	@V _R (V)	I _R (uA)	dv _z (%/ °C)
1N4741A	11	23	8	23	700	8.4	5.0	0.07
1N4742A	12	21	9	21	700	9.1	5.0	0.07
1N4743A	13	19	10	19	700	9.9	5.0	0.07
1N4744A	15	17	14	17	700	11.4	5.0	0.08
1N4745A	16	15.5	16	15.5	700	12.2	5.0	0.08
1N4746A	18	14	20	14	750	13.7	5.0	0.08
1N4747A	20	12.5	22	12.5	750	15.2	5.0	0.08
1N4748A	22	11.5	23	11.5	750	16.7	5.0	0.08
1N4749A	24	10.5	25	10.5	750	18.2	5.0	0.08
1N4750A	27	9.5	35	9.5	750	20.6	5.0	0.09
1N4751A	30	8.5	40	8.5	1000	22.6	5.0	0.09
1N4752A	33	7.5	45	7.5	1000	25.1	5.0	0.09
1N4753A	36	7.0	50	7.0	1000	27.4	5.0	0.09
1N4754A	39	6.5	60	6.5	1000	29.7	5.0	0.09
1N4755A	43	6.0	70	6.0	1500	32.7	5.0	0.09
1N4756A	47	5.5	80	5.5	1500	35.8	5.0	0.09
1N4757A	51	5.0	95	5.0	1500	38.8	5.0	0.09

Notes:

1. Rectangular waveform (t_p= 10 ms)