

1N4728C - 1N4764C Z1110C - Z1200C

V_Z : 3.3 - 200 Volts
P_D : 1 Watt

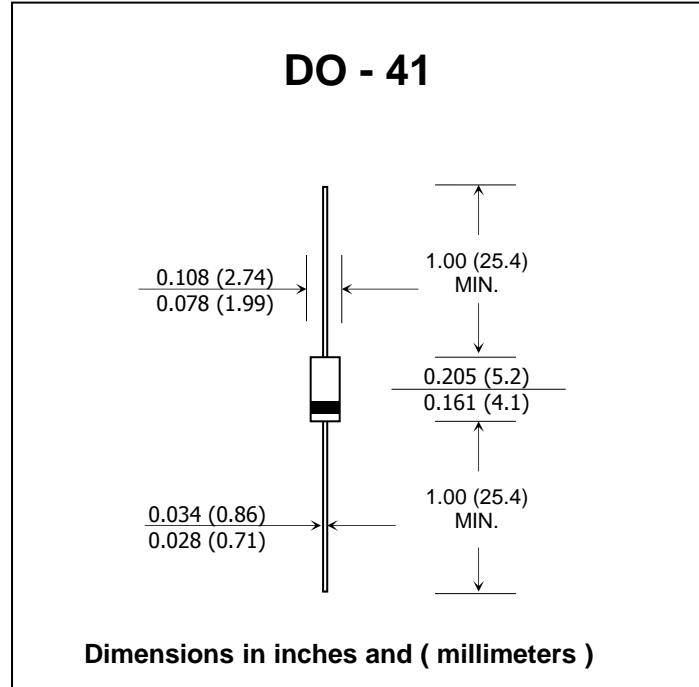
FEATURES :

- * Complete voltage range 3.3 to 200 Volts
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * **Pb / RoHS Free**

MECHANICAL DATA

- * Case : DO-41 Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.339 gram

SILICON ZENER DIODES



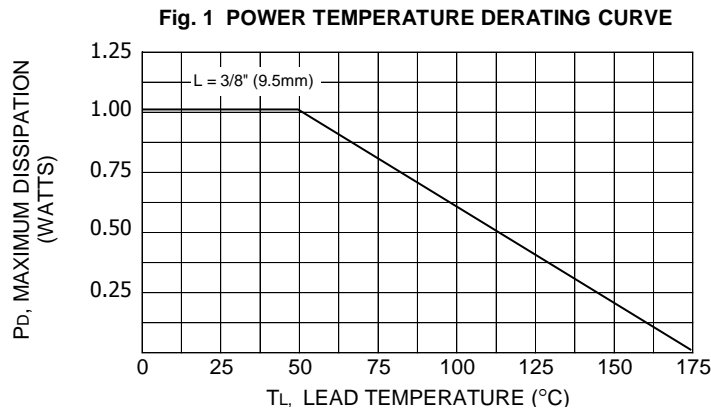
MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at T _L = 50 °C (Note1)	P _D	1.0	Watt
Maximum Forward Voltage at I _F = 200 mA	V _F	1.2	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	R _{θJA}	170	K / W
Junction Temperature Range	T _J	- 55 to + 175	°C
Storage Temperature Range	T _{STG}	- 55 to + 175	°C

Notes :

- (1) T_L = Lead temperature at 3/8 " (9.5mm) from body
- (2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



ELECTRICAL CHARACTERISTICS (Rating at 25 °C ambient temperature unless otherwise specified)

TYPE	Zener Voltage			Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Maximum Surge Current	
	$V_Z^{(1)}$ (V) @ I_{ZT}			Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}	I_{ZK}	I_R @ V_R		I_{ZM}	$I_{RM}^{(2)}$	
	Min.	Nom.	Max.	(mA)	(Ω)	(Ω)	(mA)	(μ A)	(V)	(mA)	(mApk)
1N4728C	3.23	3.3	3.37	76.0	10	400	1.0	100	1.0	276	1380
1N4729C	3.53	3.6	3.67	69.0	10	400	1.0	100	1.0	252	1260
1N4730C	3.82	3.9	3.98	64.0	9.0	400	1.0	50	1.0	234	1190
1N4731C	4.21	4.3	4.39	58.0	9.0	400	1.0	10	1.0	217	1070
1N4732C	4.61	4.7	4.79	53.0	8.0	500	1.0	10	1.0	193	970
1N4733C	5.00	5.1	5.20	49.0	7.0	550	1.0	10	1.0	178	890
1N4734C	5.49	5.6	5.71	45.0	5.0	600	1.0	10	2.0	162	810
1N4735C	6.08	6.2	6.32	41.0	2.0	700	1.0	10	3.0	146	730
1N4736C	6.66	6.8	6.94	37.0	3.5	700	1.0	10	4.0	133	660
1N4737C	7.35	7.5	7.65	34.0	4.0	700	0.5	10	5.0	121	605
1N4738C	8.04	8.2	8.36	31.0	4.5	700	0.5	10	6.0	110	550
1N4739C	8.92	9.1	9.28	28.0	5.0	700	0.5	10	7.0	100	500
1N4740C	9.80	10	10.20	25.0	7.0	700	0.25	10	7.6	91	454
1N4741C	10.78	11	11.22	23.0	8.0	700	0.25	5.0	8.4	83	414
1N4742C	11.76	12	12.24	21.0	9.0	700	0.25	5.0	9.1	76	380
1N4743C	12.74	13	13.26	19.0	10	700	0.25	5.0	9.9	69	344
1N4744C	14.70	15	15.30	17.0	14	700	0.25	5.0	11.4	61	305
1N4745C	15.68	16	16.32	15.5	16	700	0.25	5.0	12.2	57	285
1N4746C	17.64	18	18.36	14.0	20	750	0.25	5.0	13.7	50	250
1N4747C	19.60	20	20.40	12.5	22	750	0.25	5.0	15.2	45	225
1N4748C	21.56	22	22.44	11.5	23	750	0.25	5.0	16.7	41	205
1N4749C	23.52	24	24.48	10.5	25	750	0.25	5.0	18.2	38	190
1N4750C	26.46	27	27.54	9.5	35	750	0.25	5.0	20.6	34	170
1N4751C	29.40	30	30.60	8.5	40	1000	0.25	5.0	22.8	30	150
1N4752C	32.34	33	33.66	7.5	45	1000	0.25	5.0	25.1	27	135
1N4753C	35.28	36	36.72	7.0	50	1000	0.25	5.0	27.4	25	125
1N4754C	38.22	39	39.78	6.5	60	1000	0.25	5.0	29.7	23	115
1N4755C	42.14	43	43.86	6.0	70	1500	0.25	5.0	32.7	22	110
1N4756C	46.06	47	47.94	5.5	80	1500	0.25	5.0	35.8	19	95
1N4757C	49.98	51	52.02	5.0	95	1500	0.25	5.0	38.8	18	90
1N4758C	54.88	56	57.12	4.5	110	2000	0.25	5.0	42.6	16	80
1N4759C	60.76	62	63.24	4.0	125	2000	0.25	5.0	47.1	14	70
1N4760C	66.64	68	69.36	3.7	150	2000	0.25	5.0	51.7	13	65
1N4761C	73.50	75	76.50	3.3	175	2000	0.25	5.0	56.0	12	60
1N4762C	80.36	82	83.64	3.0	200	3000	0.25	5.0	62.2	11	55
1N4763C	89.18	91	92.82	2.8	250	3000	0.25	5.0	69.2	10	50
1N4764C	98.00	100	102.0	2.5	350	3000	0.25	5.0	76.0	9.0	45
Z1110C	107.8	110	112.2	2.3	450	4000	0.25	5.0	83.6	8.6	40
Z1120C	117.6	120	122.4	2.0	550	4500	0.25	5.0	91.2	7.8	37
Z1130C	127.4	130	132.6	1.9	700	5000	0.25	5.0	98.8	7.0	34
Z1150C	147.0	150	153.0	1.7	1000	6000	0.25	5.0	114.0	6.4	30
Z1160C	156.8	160	163.2	1.6	1100	6500	0.25	5.0	121.6	5.8	28
Z1180C	176.4	180	183.6	1.4	1200	7000	0.25	5.0	136.8	5.2	25
Z1200C	196.0	200	204.0	1.2	1900	9990	0.25	5.0	152.0	4.7	22

Notes :

- (1) The type number listed have a standard tolerance on the nominal zener voltage of $\pm 2\%$.
- (2) The reverse surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} per JEDEC Method