

# 1N4728 - 1N4764 Z1110 - Z1200

**V<sub>Z</sub> : 3.3 - 200 Volts**  
**P<sub>D</sub> : 1 Watt**

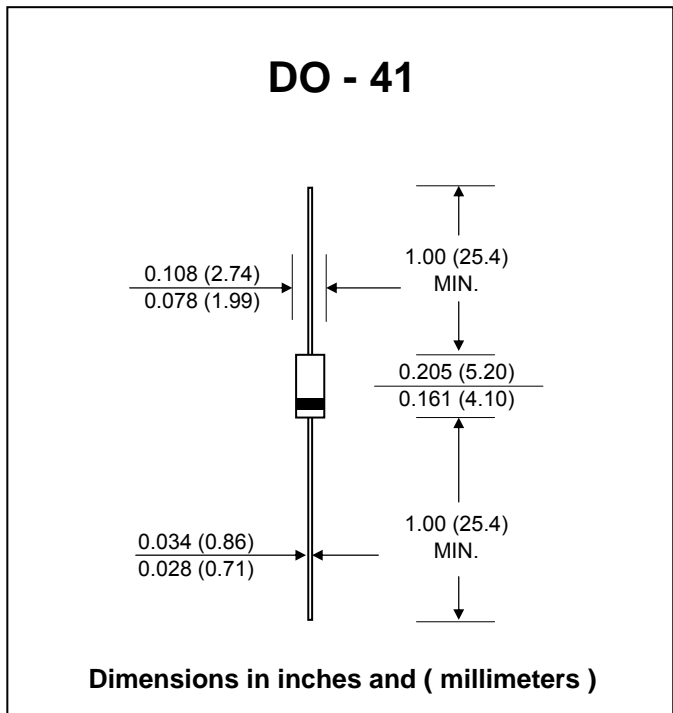
### FEATURES :

- \* 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 : 0.335 gram

## SILICON ZENER DIODES



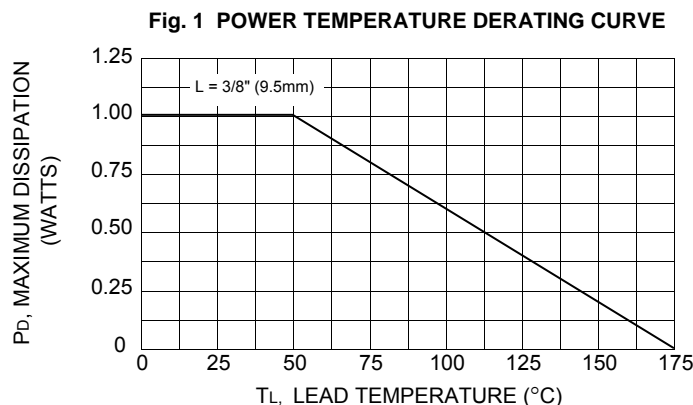
### MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at T <sub>L</sub> = 50 °C (Note1)	P <sub>D</sub>	1.0	Watt
Maximum Forward Voltage at I <sub>F</sub> = 200 mA	V <sub>F</sub>	1.2	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	R <sub>θJA</sub>	170	K / W
Junction Temperature Range	T <sub>J</sub>	- 55 to + 175	°C
Storage Temperature Range	T <sub>STG</sub>	- 55 to + 175	°C

#### Notes :

- (1) T<sub>L</sub> = 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 No.	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Maximum Surge Current
	$V_Z^{(1)}$ @ $I_{ZT}$	$I_{ZT}$	$Z_{ZT}$ @ $I_{ZT}$	$Z_{ZK}$ @ $I_{ZK}$	$I_{ZK}$	$I_R$ @ $V_R$	$I_{ZM}$	$I_{RM}^{(2)}$	
	(V)	(mA)	( $\Omega$ )	( $\Omega$ )	(mA)	( $\mu$ A) (V)	(mA)	(mApk)	
1N4728	3.3	76.0	10	400	1.0	100	1.0	276	1380
1N4729	3.6	69.0	10	400	1.0	100	1.0	252	1260
1N4730	3.9	64.0	9.0	400	1.0	50	1.0	234	1190
1N4731	4.3	58.0	9.0	400	1.0	10	1.0	217	1070
1N4732	4.7	53.0	8.0	500	1.0	10	1.0	193	970
1N4733	5.1	49.0	7.0	550	1.0	10	1.0	178	890
1N4734	5.6	45.0	5.0	600	1.0	10	2.0	162	810
1N4735	6.2	41.0	2.0	700	1.0	10	3.0	146	730
1N4736	6.8	37.0	3.5	700	1.0	10	4.0	133	660
1N4737	7.5	34.0	4.0	700	0.5	10	5.0	121	605
1N4738	8.2	31.0	4.5	700	0.5	10	6.0	110	550
1N4739	9.1	28.0	5.0	700	0.5	10	7.0	100	500
1N4740	10	25.0	7.0	700	0.25	10	7.6	91	454
1N4741	11	23.0	8.0	700	0.25	5.0	8.4	83	414
1N4742	12	21.0	9.0	700	0.25	5.0	9.1	76	380
1N4743	13	19.0	10	700	0.25	5.0	9.9	69	344
1N4744	15	17.0	14	700	0.25	5.0	11.4	61	305
1N4745	16	15.5	16	700	0.25	5.0	12.2	57	285
1N4746	18	14.0	20	750	0.25	5.0	13.7	50	250
1N4747	20	12.5	22	750	0.25	5.0	15.2	45	225
1N4748	22	11.5	23	750	0.25	5.0	16.7	41	205
1N4749	24	10.5	25	750	0.25	5.0	18.2	38	190
1N4750	27	9.5	35	750	0.25	5.0	20.6	34	170
1N4751	30	8.5	40	1000	0.25	5.0	22.8	30	150
1N4752	33	7.5	45	1000	0.25	5.0	25.1	27	135
1N4753	36	7.0	50	1000	0.25	5.0	27.4	25	125
1N4754	39	6.5	60	1000	0.25	5.0	29.7	23	115
1N4755	43	6.0	70	1500	0.25	5.0	32.7	22	110
1N4756	47	5.5	80	1500	0.25	5.0	35.8	19	95
1N4757	51	5.0	95	1500	0.25	5.0	38.8	18	90
1N4758	56	4.5	110	2000	0.25	5.0	42.6	16	80
1N4759	62	4.0	125	2000	0.25	5.0	47.1	14	70
1N4760	68	3.7	150	2000	0.25	5.0	51.7	13	65
1N4761	75	3.3	175	2000	0.25	5.0	56.0	12	60
1N4762	82	3.0	200	3000	0.25	5.0	62.2	11	55
1N4763	91	2.8	250	3000	0.25	5.0	69.2	10	50
1N4764	100	2.5	350	3000	0.25	5.0	76.0	9.0	45
Z1110	110	2.3	450	4000	0.25	5.0	83.6	8.6	40
Z1120	120	2.0	550	4500	0.25	5.0	91.2	7.8	37
Z1130	130	1.9	700	5000	0.25	5.0	98.8	7.0	34
Z1150	150	1.7	1000	6000	0.25	5.0	114.0	6.4	30
Z1160	160	1.6	1100	6500	0.25	5.0	121.6	5.8	28
Z1180	180	1.4	1200	7000	0.25	5.0	136.8	5.2	25
Z1200	200	1.2	1900	9990	0.25	5.0	152.0	4.7	22

### Notes :

- The type number listed have a standard tolerance on the nominal zener voltage of  $\pm 10\%$ .  
Suffix "A" indicates  $\pm 5\%$  tolerance, suffix "C" indicates  $\pm 2\%$  tolerance.
- 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

单击下面可查看定价，库存，交付和生命周期等信息

[>>EIC](#)