1N4728A THRU 1N4764A

1 W Silicon Zener Diodes



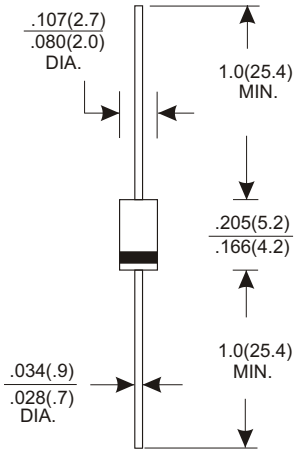
VOLTAGE RANGE

3.3 to 100 Volts

FEATURES

* 400 Watts Surge Capability at 1ms
* Excellent clamping capability
* Low zener impedance
* Fast response time: Typically less than 1.0ps from 0 volt to BV min.
* Typical I_R less than 1 A above 10V
* High temperature soldering guaranteed: 260°C / 10 seconds / .375"(9.5mm) lead length, 5lbs.(2.3kg) tension

DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

ABSOLUTE MAXIMUM RATINGS (T_{amb} = 25 °C, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Power dissipation @TL=75℃	Valid provided that leads at a distance of 4 mm from case are kept at ambient temperature	P_{tot}	1000	mW
Zener current		I_Z	P_V/V_Z	mA
Thermal resistance junction to ambient air	Valid provided that leads at a distance of 4 mm from case are kept at ambient temperature	R_{thJA}	110	K/W
Junction temperature		T_j	175	°C
Storage temperature range		T_{stg}	- 65 to + 175	°C
Forward voltage (max.)	I_F = 200 mA	V_F	1.5	V

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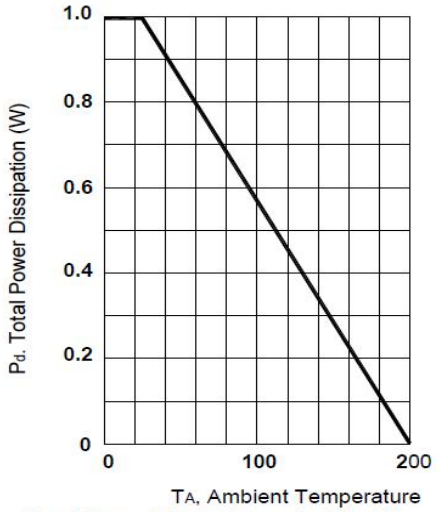


Fig. 1 Power Dissipation vs Ambient Temperature

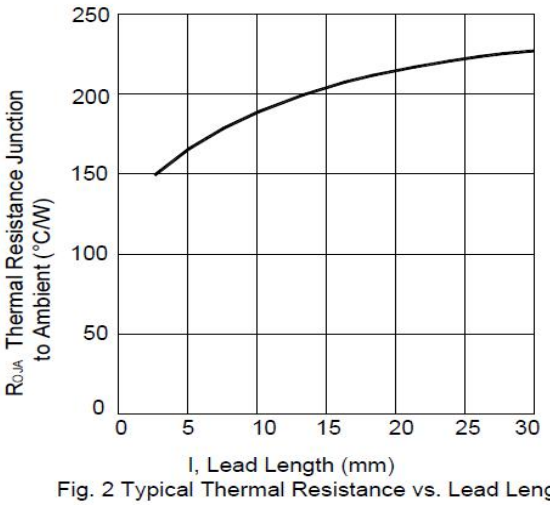


Fig. 2 Typical Thermal Resistance vs. Lead Length

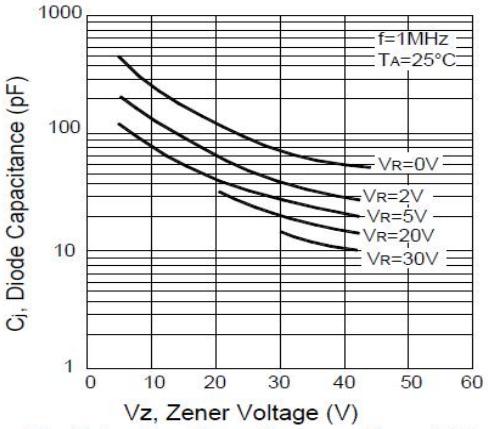


Fig. 3 Junction Capacitance vs Zener Voltage

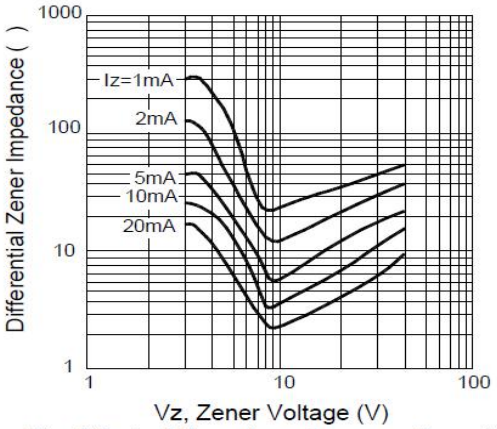


Fig. 4 Typical Zener Impedance vs. Zener Voltage

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ELECTRICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)									
PART NUMBER	**ZENER VOLTAGE RANGE (1)**	**TEST CURRENT**		**REVERSE LEAKAGE CURRENT**		**DYNAMIC RESISTANCE f = 1 kHz**		**SURGE CURRENT (3)**	**REGULATOR CURRENT (2)**
	V_Z at I_{ZT1}	I_{ZT1}	I_{ZT2}	I_R at V_R		Z_{ZT} at I_{ZT1}	Z_{ZK} at I_{ZT2}	I_R	I_{ZM}
	V	mA	mA	µA	V	Ω		mA	mA
	NOM.			MAX.		TYP.	MAX.		MAX.
1N4728A	3.3	76	1	100	1	10	400	1380	276
1N4729A	3.6	69	1	100	1	10	400	1260	252
1N4730A	3.9	64	1	50	1	9	400	1190	234
1N4731A	4.3	58	1	10	1	9	400	1070	217
1N4732A	4.7	53	1	10	1	8	500	970	193
1N4733A	5.1	49	1	10	1	7	550	890	178
1N4734A	5.6	45	1	10	2	5	600	810	162
1N4735A	6.2	41	1	10	3	2	700	730	146
1N4736A	6.8	37	1	10	4	3.5	700	660	133
1N4737A	7.5	34	0.5	10	5	4	700	605	121
1N4738A	8.2	31	0.5	10	6	4.5	700	550	110
1N4739A	9.1	28	0.5	10	7	5	700	500	100
1N4740A	10	25	0.25	10	7.6	7	700	454	91
1N4741A	11	23	0.25	5	8.4	8	700	414	83
1N4742A	12	21	0.25	5	9.1	9	700	380	76
1N4743A	13	19	0.25	5	9.9	10	700	344	69
1N4744A	15	17	0.25	5	11.4	14	700	304	61
1N4745A	16	15.5	0.25	5	12.2	16	700	285	57
1N4746A	18	14	0.25	5	13.7	20	750	250	50
1N4747A	20	12.5	0.25	5	15.2	22	750	225	45
1N4748A	22	11.5	0.25	5	16.7	23	750	205	41
1N4749A	24	10.5	0.25	5	18.2	25	750	190	38
1N4750A	27	9.5	0.25	5	20.6	35	750	170	34
1N4751A	30	8.5	0.25	5	22.8	40	1000	150	30
1N4752A	33	7.5	0.25	5	25.1	45	1000	135	27
1N4753A	36	7	0.25	5	27.4	50	1000	125	25
1N4754A	39	6.5	0.25	5	29.7	60	1000	115	23
1N4755A	43	6	0.25	5	32.7	70	1500	110	22
1N4756A	47	5.5	0.25	5	35.8	80	1500	95	19
1N4757A	51	5	0.25	5	38.8	95	1500	90	18
1N4758A	56	4.5	0.25	5	42.6	110	2000	80	16
1N4759A	62	4	0.25	5	47.1	125	2000	70	14
1N4760A	68	3.7	0.25	5	51.7	150	2000	65	13
1N4761A	75	3.3	0.25	5	56	175	2000	60	12
1N4762A	82	3	0.25	5	62.2	200	3000	55	11
1N4763A	91	2.8	0.25	5	69.2	250	3000	50	10
1N4764A	100	2.5	0.25	5	76	350	3000	45	9

Notes

(1) Based on DC measurement at thermal equilibrium while maintaining the lead temperature (T_L) at 30 °C + 1 °C, 9.5 mm (3/8") from the diode body

(2) Valid provided that electrodes at a distance of 4 mm from case are kept at ambient temperature

(3) t_p = 10 ms.

1、目的：规范轴向产品的包装方式，确保产品的包装统一。
2、产品包装要求：
2.1、红白胶带和纸带的使用的要求：

2.1.1、DO-41\DO-15　编带正面使用白色胶带，背面使用红白纸带，红色纸带放在有色环一端。
2.1.2、DO-27\R-6　　编带正反面全部使用红白胶带，红色胶带使用在有色环一端。

2.3、内盒和卷盘 以及外箱的要求：

DO-41	盒装	最小包装数量为1K/卷	50K/箱（50盒）
	编带	最小包装数量为5K/卷	50K/箱（10盒）
DO-15	盒装	最小包装数量为0.5K/卷	25K/箱（50盒）
	编带	最小包装数量为3K/卷	30K/箱（10盒）
DO-27	盒装	最小包装数量为0.25K/卷	12.5K/箱（50盒）
	编带	最小包装数量为1.2K/卷	12K/箱（10盒）
R-6	盒装	最小包装数量为0.1K/卷	5.0K/箱（50盒）
	编带	最小包装数量为0.5K/卷	5.0K/箱（10盒）



盖:195*85*20
底:192*82*19



255*152*75



405*270*320

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Global Electronic Components Distributor

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GK:

MM1Z6V2B SI2301S 4N65F PESD3V3L1BA SR560L 1N5399 1SMA4740A ES05D1MC10 ES12D1HA03 MB14S MM1Z4V7B US5M K16 SS1060 SS10100 DSK110 K34 MBRF30200CT MM5Z5V6 600R65 MBRD3045 ES3.3D1HA03 CDSOT23-SM712 MB210F MBRD1060 ES1236D2HA23 F7 MB16F BZT52C22 DMG1013T