

特性/机械性能:
FEATURES/MECHANICAL DATE

- ◆ 小电流下的齐纳阻抗低 Zener shed little electric impedance is low
- ◆ 高可靠性 High reliability
- ◆ 耐焊接热: 轴向产品250°C/10S, 引出端0.375" (9.5mm) 处。
贴片产品250°C/10S, 引出端1.5mm处。

Welding heat resistance: Axial product 250 °C / 10S, terminal 0.375 "(9.5 mm).

SMD product 250 °C / 10S, terminal 1.5 mm.



DO-41



SMA/DO-214AC

- ◆ 封装: 模塑封装 Case: Molded plastic
- ◆ 引线(端子): 电镀可焊性符合MIL-STD-202E, 方法208C
Lead(Terminal): solderable per MIL-STD-202, method 208 guaranteed
- ◆ 极性: 色环表示阴极 Polarity: Color band denotes cathode

最大额定值及电气特性:
MAXIMUM RATINGS AND CHARACTERISTICS

测量环境温度为25°C, 除非另有规定。

Rating at 25°C ambient temperature unless otherwise specified.

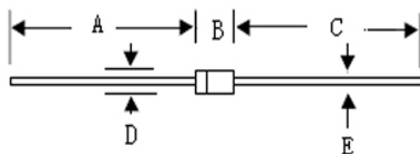
参数名称 Papt Number	符号Symbol	数值Value	单位Unit
齐纳电流 The zener current	I _Z MAX	见表See table	mA
耗散功率@Ta=75°C Power Dissipation@Ta=75°C	P _t	1.0	W
正向电压@IF=200mA Forward voltage@IF=200mA	V _F	1.5	V
热阻抗 Thermal impedance	R _{θ(ja)}	32	°C/W
使用及储存温度范围(贴片) Operating and Storage Temperature Range (Axial)	T _J , T _{STG}	-55~+150	°C
使用及储存温度范围(轴向) Operating and Storage Temperature Range (SMD)	T _J , T _{STG}	-55~+175	°C

注 释: 轴向产品距离管体9.5mm引线处的温度, 设定为环境温度。贴片产品在引线末端安装5×5mm散热铜片。

Notes: Axial lead product tube 9.5 mm lead in body temperature, set to ambient temperature. SMD products installed in the end of the wire 5 x 5 mm cooling copper.

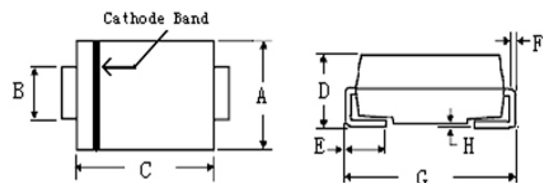
产品外形尺寸:
PRODUCT APPEARANCE SIZE

DO-41



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	1.0		25.4	
B	0.161	0.205	4.1	5.2
C	1.0		25.4	
D	0.080	0.107	2.0	2.7
E	0.028	0.034	0.71	0.86

SMA/DO-214AC



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.096	0.108	2.45	2.75
B	0.049	0.061	1.25	1.55
C	0.171	0.183	4.35	4.65
D	0.075	0.091	1.90	2.30
E	0.031	0.055	0.80	1.40
F	0.005	0.011	0.13	0.27
G	0.191	0.203	4.85	5.15
H		0.008		0.203

电特性:
ELECTRICAL CHARACTERISTICS

型号 TYPE	齐纳电压 Zener voltage		最大齐纳阻抗 Maximum dynamic resistance			最大反向漏电流 Maximum Leakage Current @VR		最大直流齐纳电流 The largest dc zener current
	V Z@IZT	IZT	Z ZT @IZT	Z ZK @IZK	I ZK	IR@VR	VR	ZM @50°C
	V	mA	Ω	Ω	mA	μA	V	mA
1N4736	6.8	37	3.5	700	1.0	10	4	133
1N4737	7.5	31	4.0	700	0.5	10	5	121
1N4738	8.2	31	4.5	700	0.5	10	6	110
1N4739	9.1	28	5.0	700	0.25	10	7	100
1N4740	10	25	7	700	0.25	10	76	91
1N4741	11	23	8	700	0.25	5	8.4	83
1N4742	12	21	9	700	0.25	5	9.1	76
1N4743	13	19	10	700	0.25	5	9.9	69
1N4744	15	17	14	700	0.25	5	11.4	61
1N4745	16	15.5	16	700	0.25	5	12.2	57
1N4746	18	14	20	750	0.25	5	13.7	50
1N4747	20	12.5	22	750	0.25	5	15.2	45
1N4748	22	11.5	23	750	0.25	5	16.7	41
1N4749	24	10.5	25	750	0.25	5	18.2	38
1N4750	27	9.5	35	750	0.25	5	20.6	34
1N4751	30	8.5	40	1000	0.25	5	22.8	30
1N4752	33	7.5	45	1000	0.25	5	25.1	27
1N4753	36	7.0	50	1000	0.25	5	27.4	25
1N4754	39	6.5	60	1000	0.25	5	29.7	23
1N4755	43	6.0	70	1500	0.25	5	32.7	22
1N4756	47	5.5	80	1500	0.25	5	35.8	19
1N4757	51	5.0	95	1500	0.25	5	38.8	18
1N4758	56	4.5	110	2000	0.25	5	42.6	16
1N4759	62	4.0	125	2000	0.25	5	47.1	14
1N4760	68	3.7	150	2000	0.25	5	51.7	13
1N4761	75	3.3	175	2000	0.25	5	56.0	12
1N4762	82	3.0	200	3000	0.25	5	62.2	11
1N4763	91	2.8	250	3000	0.25	5	69.2	10
1N4764	100	2.5	350	3000	0.25	5	76.0	9
1N4765	110	2.3	450	4000	0.25	5	83.6	7.2
1N4766	120	2.0	550	4500	0.25	5	91.2	7.0
1N4767	130	1.9	700	5000	0.25	5	98.8	6.0
1N4768	150	1.7	1000	6000	0.25	5	114.0	5.5
1N4769	160	1.6	1100	6500	0.25	5	121.6	5.2
1N4770	180	1.4	1200	7000	0.25	5	136.8	4.6
1N4771	200	1.2	1500	8000	0.25	5	152.0	4.0

注释:Notes:

- 标准型的齐纳电压值偏差为10%；附加标“A”的特选型，其偏差为5%。
The zener voltage value of the standard deviation is 10%；Additional standard "A", type selection, the deviation of 5%.
- 表面贴装型将“1N”改为“1SMA”。 Surface-mount type "1N" to "1SMA".
- 对于齐纳阻抗， $I(ac\ rms) = 10\% I_{zt}$ The zener impedance, $I_{zt}(ac\ RMS) = 10\%$
- 对于齐纳拐点阻抗， $I(ac\ rms) = 10\% I_{zk}$ The zener inflection point impedance, $I_{zk}(ac\ RMS) = 10\%$
- 这里的最大齐纳电流值并非是绝对的，在实际稳态应用中，应保证电压和电流的乘积不超过额定功率值。
Here is one of the most DaJi, current value is not absolute, in the practical application of the steady state, shall ensure that the product of the voltage and current shall not exceed the rated power value.

特性曲线图:

RATINGS AND CHARACTERISTIC CURVES

