

表面贴装稳压二极管

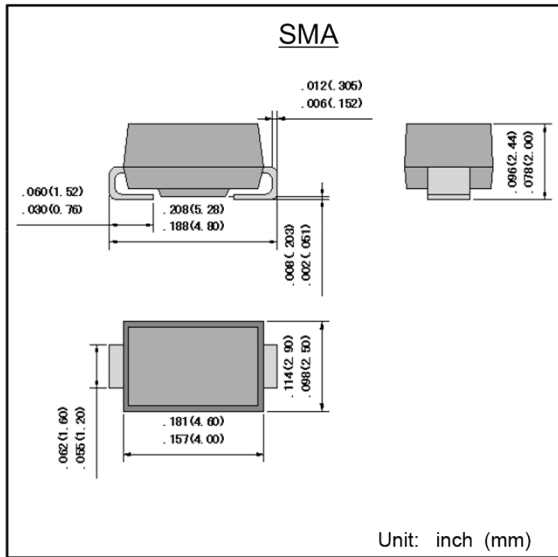
功率 1500 mW

稳压电压范围 3.3 -240 V

Surface Mount Zener Diode

Power Dissipation 1500 mW

Zener Voltage Range 3.3 - 240 V



特征 Features

- 平面结构芯片 Planar die construction
- 最大功率耗散1500mW。 Maximum power dissipation of 1500 mW
- 标准稳压电压公差 $\pm 5\%$ Standard Zener voltage tolerance is $\pm 5\%$
- 高稳定性和可靠性。 High stability and high reliability
- 引线镀层符合RoHS标准
Lead plating according with RoHS standard

机械数据 Mechanical Data

- 封装: SMA 塑封 Case: SMA Molded plastic
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 环氧树脂: UL易燃等级: 94V-0
Epoxy: UL 94V-0 rate flame retardant
- 安装位置: 任意 Mounting Position: Any

最大值和特性 TA = 25°C 除非另有规定。

Maximum Ratings & Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

参数 Parameter	符号 Symbols	数值	单位
		Value	Unit
功率消耗 Power Dissipation @ TL =75°C	P_D	1500	mW
典型热阻 Type Thermal Resistance (Note 1)	$R_{\theta JA}$	250	°C/W
正向电压 Forward Voltage IF=200mA	V_{FM}	1.5	V
工作结温和存储温度 Operating Junction and Storage Temperature	T_J, T_{STG}	-55 --- +150	°C

备注 Note:

1) Thermal Resistance, Junction to Ambient

产品型号 Part No.	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	$V_Z @ I_{ZT}$		$Z_{ZT@I_{ZT}}$	Z_{ZK}		$I_R(\mu A)$		I_{ZM}
	Nom.(V)	$I_{ZT}(mA)$	Max. (Ω)	Max. (Ω)	@ $I_{ZK}(mA)$	Max.(μA)	@ $V_R(V)$	mA
1SMA5913B	3.3	113.6	10	500	1	100	1.0	454
1SMA5914B	3.6	104.2	9	500	1	75	1.0	416
1SMA5915B	3.9	96.1	7.5	500	1	25	1.0	384
1SMA5916B	4.3	87.2	6	500	1	5	1.0	348
1SMA5917B	4.7	79.8	5	500	1	5	1.5	319
1SMA5918B	5.1	73.5	4	500	1	5	2.0	294
1SMA5919B	5.6	66.9	2	500	1	5	3.0	267
1SMA5920B	6.2	60.5	2	200	1	5	4.0	241
1SMA5921B	6.8	55.1	2.5	200	1	5	5.2	220
1SMA5922B	7.5	50.0	3	400	0.5	50	6.0	200
1SMA5923B	8.2	45.7	3.5	400	0.5	50	6.5	182
1SMA5924B	9.1	41.2	4	500	0.5	50	7.0	164
1SMA5925B	10	37.5	4.5	500	0.25	50	8.0	150
1SMA5926B	11	34.1	5.5	550	0.25	50	8.4	136
1SMA5927B	12	31.2	6.5	550	0.25	1	9.1	125
1SMA5928B	13	28.8	7	550	0.25	1	9.9	115
1SMA5929B	15	25.0	9	600	0.25	1	11.4	100
1SMA5930B	16	23.4	10	600	0.25	1	12.2	93
1SMA5931B	18	20.8	12	650	0.25	1	13.7	83
1SMA5932B	20	18.7	14	650	0.25	1	15.2	75
1SMA5933B	22	17.0	17.5	650	0.25	1	16.7	68
1SMA5934B	24	15.6	19	700	0.25	1	18.2	62
1SMA5935B	27	13.9	23	700	0.25	1	20.6	55
1SMA5936B	30	12.5	26	750	0.25	1	22.8	50
1SMA5937B	33	11.4	33	800	0.25	1	25.1	45
1SMA5938B	36	10.4	38	850	0.25	1	27.4	41
1SMA5939B	39	9.6	45	900	0.25	1	29.7	38
1SMA5940B	43	8.7	53	950	0.25	1	32.7	34
1SMA5941B	47	8.0	67	1000	0.25	1	35.8	31
1SMA5942B	51	7.3	70	1100	0.25	1	38.8	29
1SMA5943B	56	6.7	86	1300	0.25	1	42.6	26
1SMA5944B	62	6.0	100	1500	0.25	1	47.1	24
1SMA5945B	68	5.5	120	1700	0.25	1	51.7	22
1SMA5946B	75	5.0	140	2000	0.25	1	56.0	20
1SMA5947B	82	4.6	160	2500	0.25	1	62.2	18
1SMA5948B	91	4.1	200	3000	0.25	1	69.2	16
1SMA5949B	100	3.7	250	3100	0.25	1	76.0	15
1SMA5950B	110	3.4	300	4000	0.25	1	83.6	13
1SMA5951B	120	3.1	380	4500	0.25	1	91.2	12
1SMA5952B	130	2.9	450	5000	0.25	1	98.8	11
1SMA5953B	150	2.5	600	6000	0.25	1	114.0	10
1SMA5954B	160	2.3	700	6500	0.25	1	121.6	9
1SMA5955B	180	2.1	900	7000	0.25	1	136.8	8
1SMA5956B	200	1.9	1200	8000	0.25	1	152.0	7
1SMA5957B	240	1.5	1600	9000	0.25	1	182.4	6