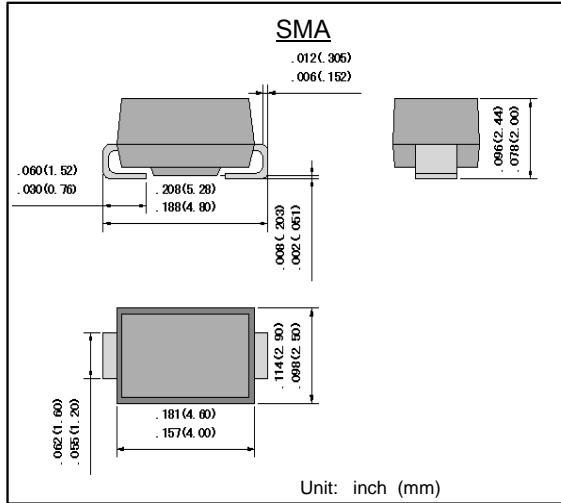




1SMA4727A~1SMA4764A

表面贴装稳压二极管
功率 1000 mW
稳压电压范围 3 -100 V

Surface Mount Zener Diode
Power Dissipation 1000 mW
Zener Voltage Range 3 - 100 V



特征 Features

- 平面结构芯片 Planar die construction
- 最大功率耗散1000mW。 Maximum power dissipation of 1000 mW
- 标准稳压电压公差 ±5% Standard Zener voltage tolerance is ±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

极限值和温度特性 TA = 25°C 除非另有规定。

Maximum Ratings & Thermal 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 @ T _A = 25°C	P _D	1000	mW
典型热阻 Type Thermal Resistance (Note 1)	R _{θJA}	170	°C/W
工作结温 Junction Temperature	T _J	150	°C
存储温度 Storage Temperature Range	T _{STG}	-55 --- +150	°C

备注 Note:

1) Thermal Resistance, Junction to Ambient

电特性 TA = 25°C 除非另有规定。

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

参数 Parameter	符号 Symbols	数值	单位
		Value	Unit
正向电压 Forward Voltage IF=0.2A	V _{FM}	1.2	V



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电特性 TA = 25°C 除非另有规定。

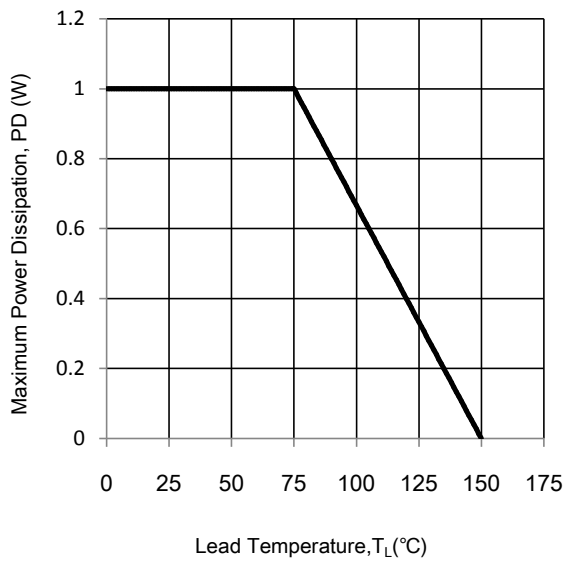
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Part No.	Device Marking Code	Zener Voltage Range		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	IR @ VR		I_{ZM}
		(V)	(mA)	(Ω)	(Ω)	(mA)	μ A	Volts	(mA)
1SMA4727A	27A	2.85~3.15	83.0	10	400	1	150	1.0	274.0
1SMA4728A	28A	3.135~3.465	76.0	10	400	1	100	1.0	274.0
1SMA4729A	29A	3.42~3.78	69.0	10	400	1	100	1.0	251.0
1SMA4730A	30A	3.705~4.095	64.0	9	400	1	50	1.0	232.0
1SMA4731A	31A	4.085~4.515	58.0	9	400	1	20	1.0	210.0
1SMA4732A	32A	4.465~4.935	53.0	8	500	1	10	1.0	192.0
1SMA4733A	33A	4.845~5.355	49.0	7	550	1	10	1.0	177.0
1SMA4734A	34A	5.32~5.88	45.0	5	600	1	10	2.0	161.0
1SMA4735A	35A	5.89~6.51	41.0	2	700	1	10	3.0	146.0
1SMA4736A	36A	6.46~7.14	37.0	3.5	700	1	5	4.0	133.0
1SMA4737A	37A	7.125~7.875	34.0	4	700	0.5	5	5.0	121.0
1SMA4738A	38A	7.79~8.61	31.0	4.5	700	0.5	5	6.0	110.0
1SMA4739A	39A	8.645~9.555	28.0	5	700	0.5	0.5	7.0	100.0
1SMA4740A	40A	9.5~10.5	25.0	7	700	0.25	0.5	7.6	91.0
1SMA4741A	41A	10.45~11.55	23.0	8	700	0.25	0.1	8.4	83.0
1SMA4742A	42A	11.4~12.6	21.0	9	700	0.25	0.1	9.1	76.0
1SMA4743A	43A	12.35~13.65	19.0	10	700	0.25	0.1	9.9	69.0
1SMA4744A	44A	14.25~15.75	17.0	14	700	0.25	0.1	11.4	61.0
1SMA4745A	45A	15.2~16.8	15.5	16	700	0.25	0.1	12.2	57.0
1SMA4746A	46A	17.1~18.9	14.0	20	750	0.25	0.1	13.7	50.0
1SMA4747A	47A	19~21	12.5	22	750	0.25	0.1	15.2	45.0
1SMA4748A	48A	20.9~23.1	11.5	23	750	0.25	0.1	16.7	41.0
1SMA4749A	49A	22.8~25.2	10.5	25	750	0.25	0.1	18.2	38.0
1SMA4750A	50A	25.65~28.35	9.5	35	750	0.25	0.1	20.6	34.0
1SMA4751A	51A	28.5~31.5	8.5	40	1000	0.25	0.1	22.8	30.0
1SMA4752A	52A	31.35~34.65	7.5	45	1000	0.25	0.1	25.1	27.0
1SMA4753A	53A	34.2~37.8	7.0	50	1000	0.25	0.1	27.4	25.0
1SMA4754A	54A	37.05~40.95	6.5	60	1000	0.25	0.1	29.7	23.0
1SMA4755A	55A	40.85~45.15	6.0	70	1500	0.25	0.1	32.7	22.0
1SMA4756A	56A	44.65~49.35	5.5	80	1500	0.25	0.1	35.8	19.0
1SMA4757A	57A	48.45~53.55	5.0	95	1500	0.25	0.1	38.8	18.0
1SMA4758A	58A	53.2~58.8	4.5	110	2000	0.25	0.1	42.6	16.0
1SMA4759A	59A	58.9~65.1	4.0	125	2000	0.25	0.1	47.1	14.0
1SMA4760A	60A	64.6~71.4	3.7	150	2000	0.25	0.1	51.7	13.0
1SMA4761A	61A	71.25~78.75	3.3	175	2000	0.25	0.1	56.0	12.0
1SMA4762A	62A	77.9~86.1	3.0	200	3000	0.25	0.1	62.2	11.0
1SMA4763A	63A	86.45~95.55	2.8	250	3000	0.25	0.1	69.2	10.0
1SMA4764A	64A	95~105	2.5	350	3000	0.25	0.1	76.0	9.0

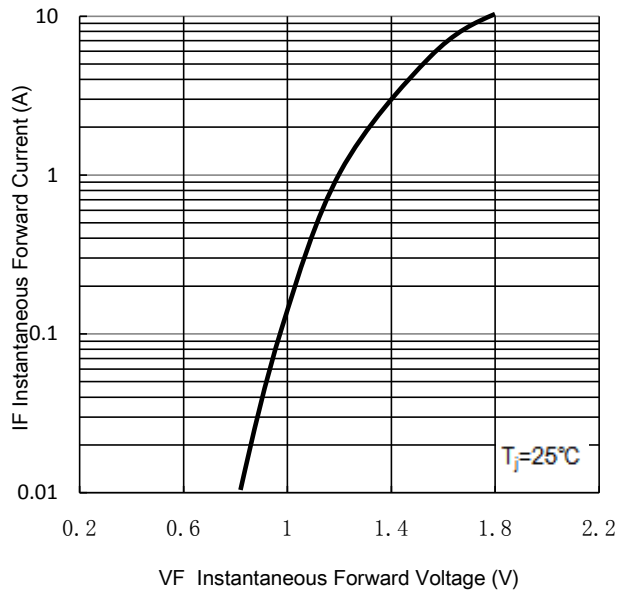


特性曲线 Characteristic Curves

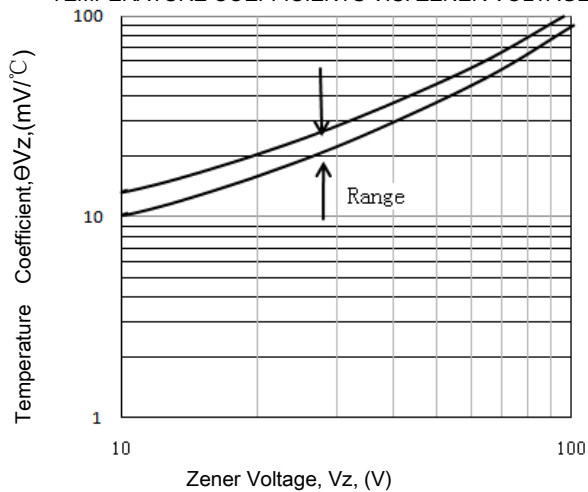
POWER TEMPERATURE DERATING CURVE



TYPICAL FORWARD CHARACTERISTIC



TEMPERATURE COEFFICIENTS V.S. ZENER VOLTAGE



TYPICAL THERMAL RESISTANCE V.S. LEAD LENGTH

