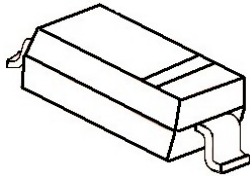
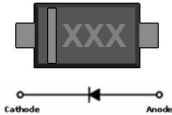


SOD-123



Marking:



特征 Features

- 齐纳击穿阻抗低; Low Zener Impedance
- 最大功率耗散 500mW; Power Dissipation of 500mW
- 高稳定性和可靠性。High Stability and High Reliability

机械数据 Mechanical Data

- 封装: SOD-123 封装 SOD-123 Small Outline Plastic Package
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 环氧树脂 UL 易燃等级 Epoxy UL: 94V-0
- 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 Parameters	符号 Symbol	数值 Value	单位 Unit
功率消耗 Power Dissipation	Pd	500 ¹⁾	mW
正向压降 Forward Voltage @IF=10mA	Vf	0.9 ²⁾	V
热阻 Thermal Resistance, Junction-to-Ambient	RθJA	340 ³⁾	°C/W
热阻 Thermal Resistance, Junction-to-Lead	RθJL	150 ³⁾	°C/W
存储温度 Storage temperature range	Ts	-65-+150	°C

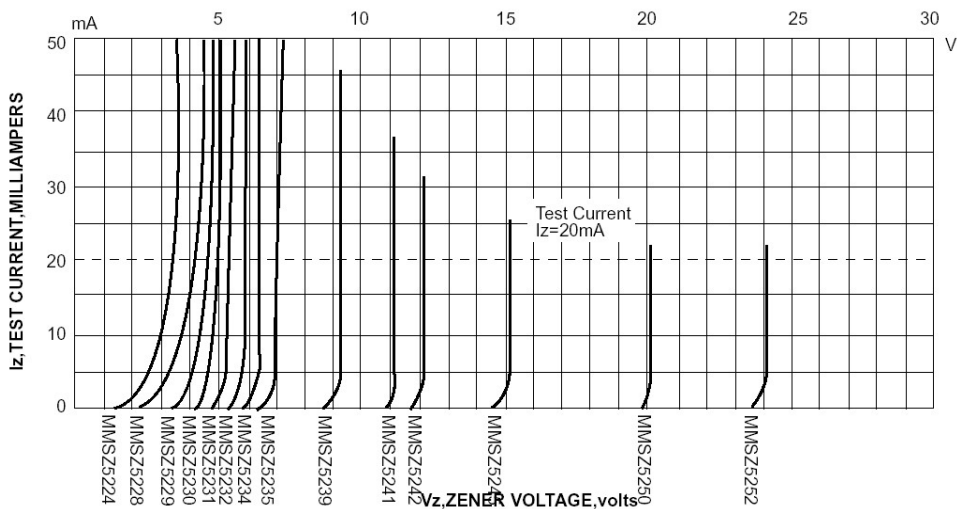
- 1) Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm²
- 2) Short duration test pulse used to minimize self-heating effect
- 3) Thermal Resistance measurement obtained via infrared Scan Method.
- 4) f=1KHz

电特性 (TA = 25°C 除非另有规定)

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

型号	印字 (代码)	Vz1(@Izt)			Zzt@Izt	Zzk		IR	
		Min	Max	Izt	Max	Max	Izk	Max	VR
		(V)	(V)	mA	Ω	Ω	mA	uA	V
MMSZ5231BT1G-CN	2W8	4.85	5.36	20	17	1600	0.25	5.0	2.0

Breakdown characteristics



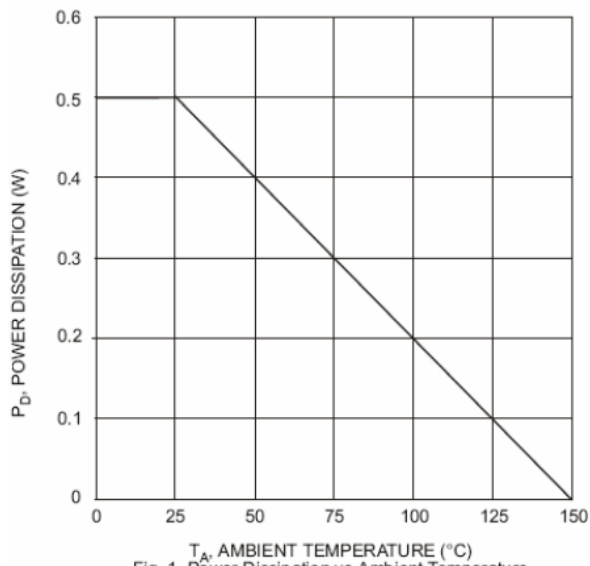


Fig. 1 Power Dissipation vs Ambient Temperature

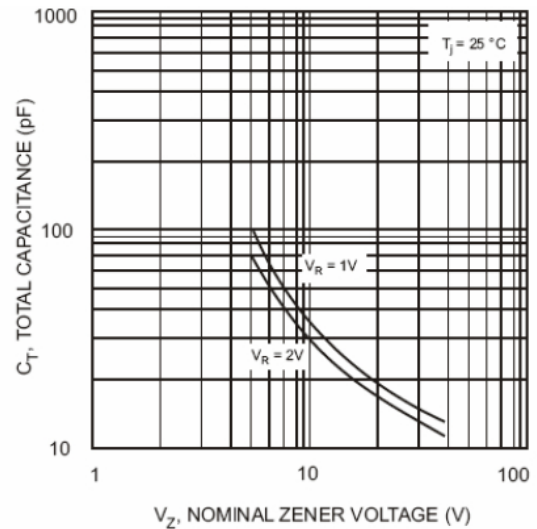


Fig. 2 Total Capacitance vs Nominal Zener Voltage

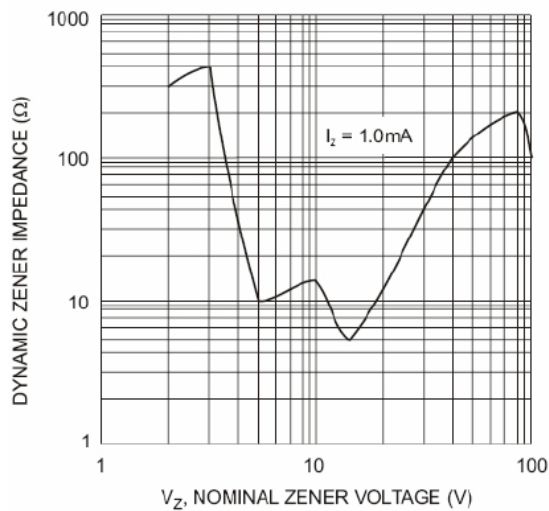


Fig. 3 Zener Voltage vs. Zener Impedance

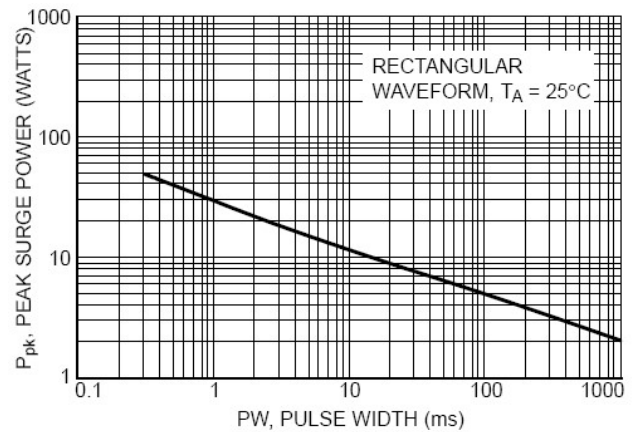
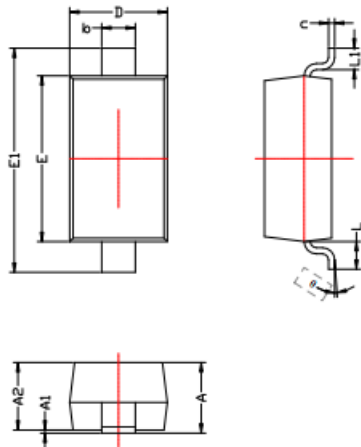


Fig. 4. Maximum Nonrepetitive Surge Power

SOD-123 PACKAGE OUTLINE Plastic surface mounted package



SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.080	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500REF	
L1	0.250	0.450
θ	0°	8°

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