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MMSZ5228BT1G-TP

SOD123 Zener Diodes

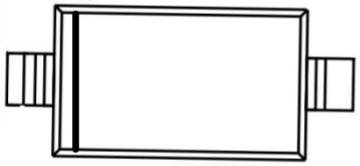
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Features

- Low Zener Impedance
- Power Dissipation of 500mW
- High Stability and High Reliability
- Halogen free and RoHS compliant
- SOD123 surface mount package

Applications

- General voltage regulation
- Mobile & handheld systems



SOD123



Pin Configuration

Maximum Ratings& Thermal Characteristics

(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Forward Voltage @ IF=10mA	VF	0.9	V
Power Dissipation	PD	500	mW
Thermal Resistance (Junction-to-Ambient)	RθJA	250	°C/W
Thermal Resistance (Junction-to-Case)	RθJC	140	°C/W
Junction Temperature Range	TJ	-55 ~ +150	°C
Storage Temperature Range	TSTG	-65 ~ +150	°C

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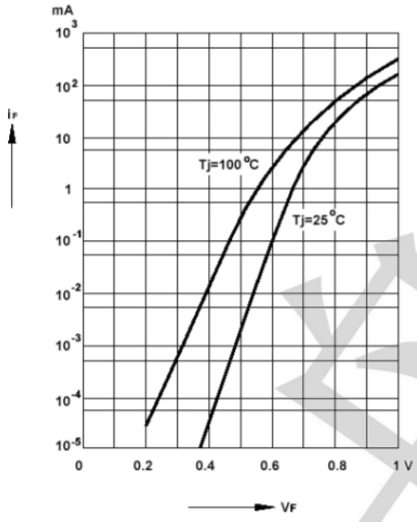
SOD123 Zener Diodes

Electrical Characteristics (TA=25°C unless otherwise specified)

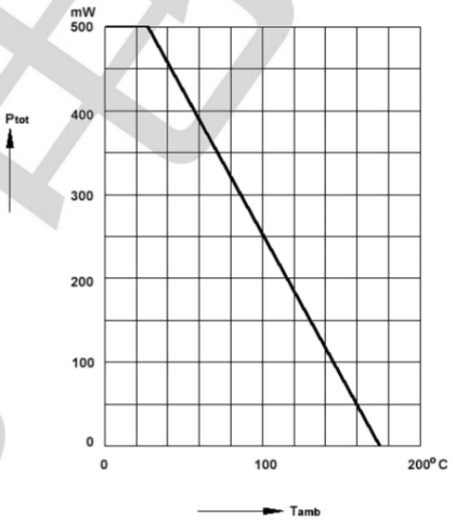
Device	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current		Typical Temperature coefficent @ IZTC=mV/℃		Test Current IZTC
	Vz@Izt			Izt	Zzt @Izt	Zzk @Izk	Izk	IR	VR			
	Nom(V)	Min(V)	Max(V)	mA	Ω		mA	uA	V	Min	Max	mA
MMSZ5228BT1G-TP	3.9	3.7	4.1	5	90	600	1.0	3	1.0	-3.5	0	5

Typical Characteristics Curves

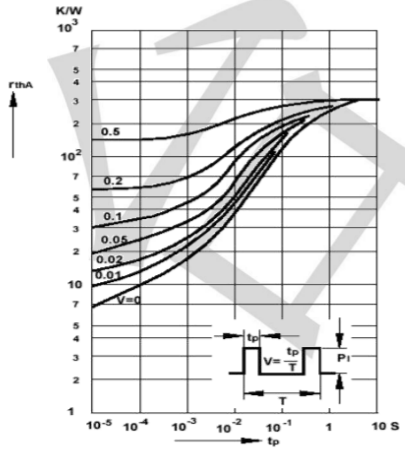
Forward characteristics



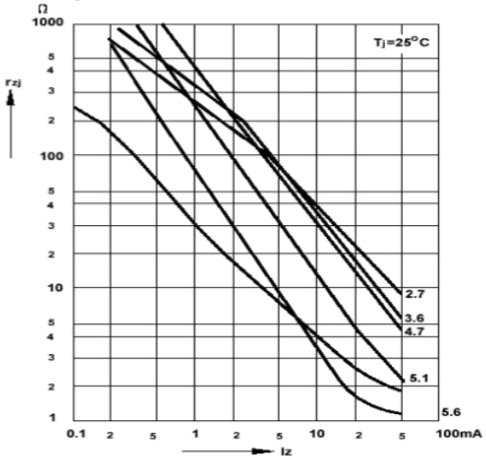
Admissible power dissipation versus ambient temperature



Pulse thermal resistance versus pulse duration

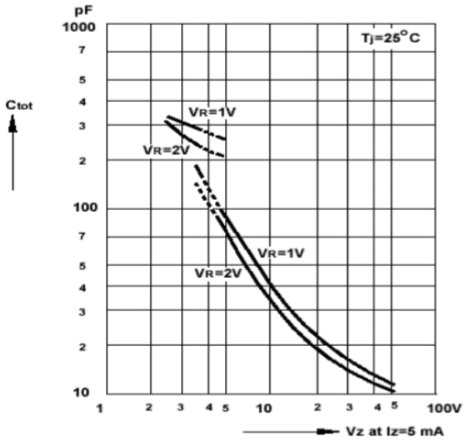


Dynamic resistance versus Zener current

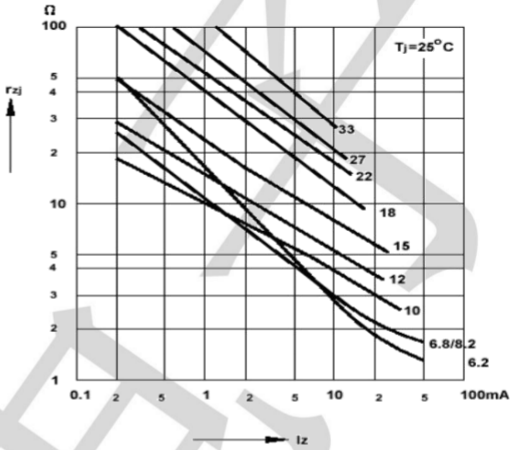


Typical Characteristics Curves

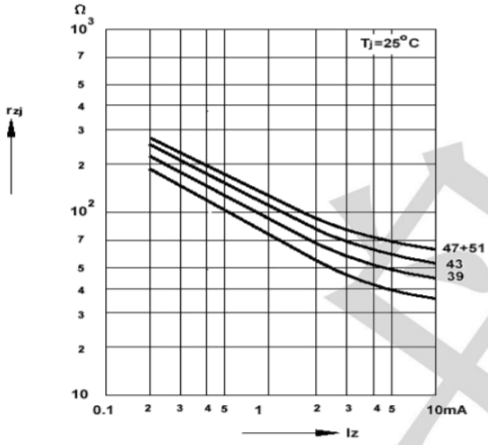
Capacitance versus Zener voltage



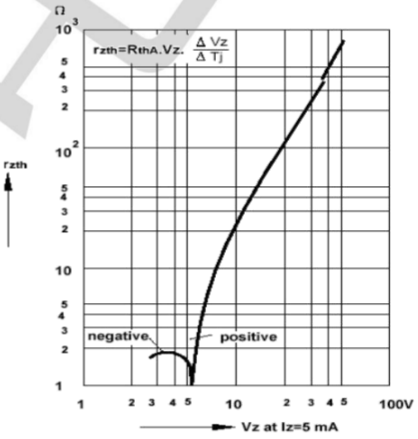
Dynamic resistance versus Zener current



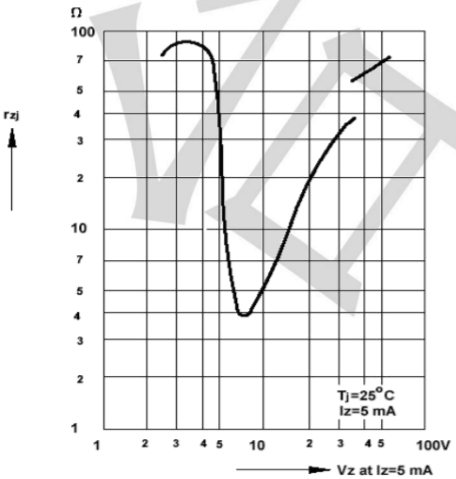
Dynamic resistance versus Zener current



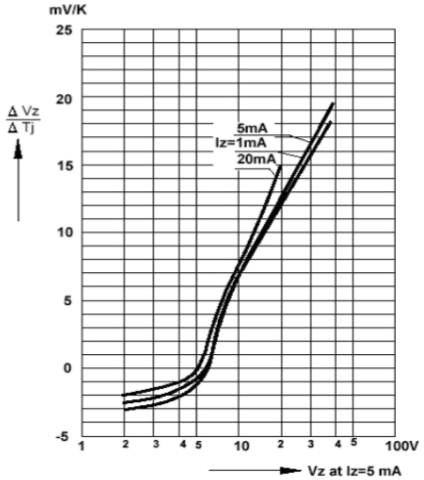
Thermal differential resistance versus Zener voltage



Dynamic resistance versus Zener voltage

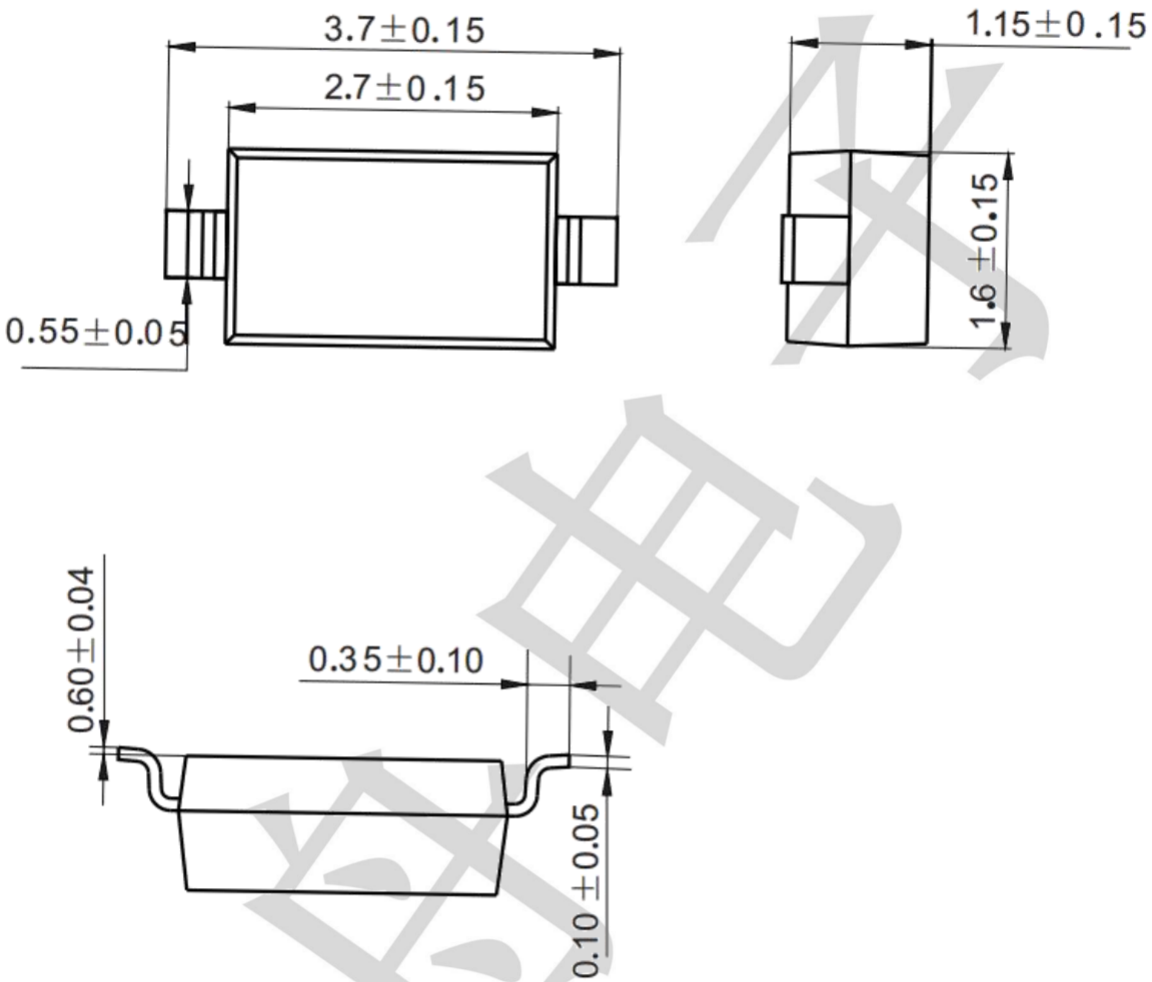


Temperature dependence of Zener voltage versus Zener voltage

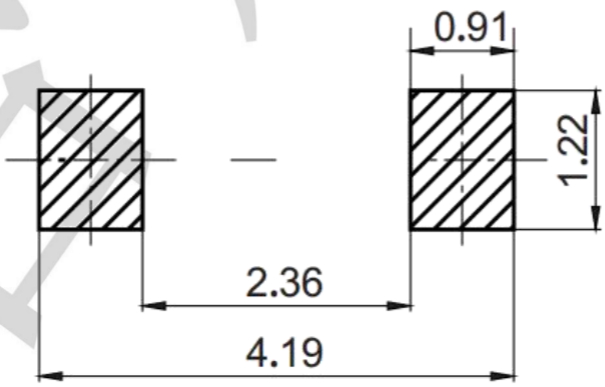


Package Outline Dimensions (unit: mm)

SOD123



Mounting Pad Layout (unit: mm)



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Global Electronic Components Distributor

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FDMS7670AS-TP TPFMMT493 TPS7B6950DBVR-TP BSN20W DMP6350S SN7002W TPADM809LAKSZ TPAPX809S-31SA TPDMG6602SVT TPZVN3320FTA LTH7 TPB1A30-123 DDTA143ZCA QM3003J-TP TPD1213A-02SM TPESD0504S6-A TPZXMP3A13FTA BV15C SI3932DV TPB05A40-323 IRFR2405TRPBF-TP TPADM809SAKSZ TPS3809L30DBVR-TP TPSPX3819M5-L-3-3 TPWSB5557Z ESD5B5.0ST1G-P FDC6301N-TP TPESD0402G08V TPESD5311N TPGC12C-1