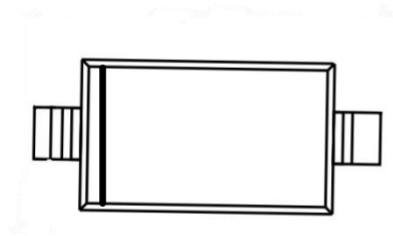


### Features

- 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

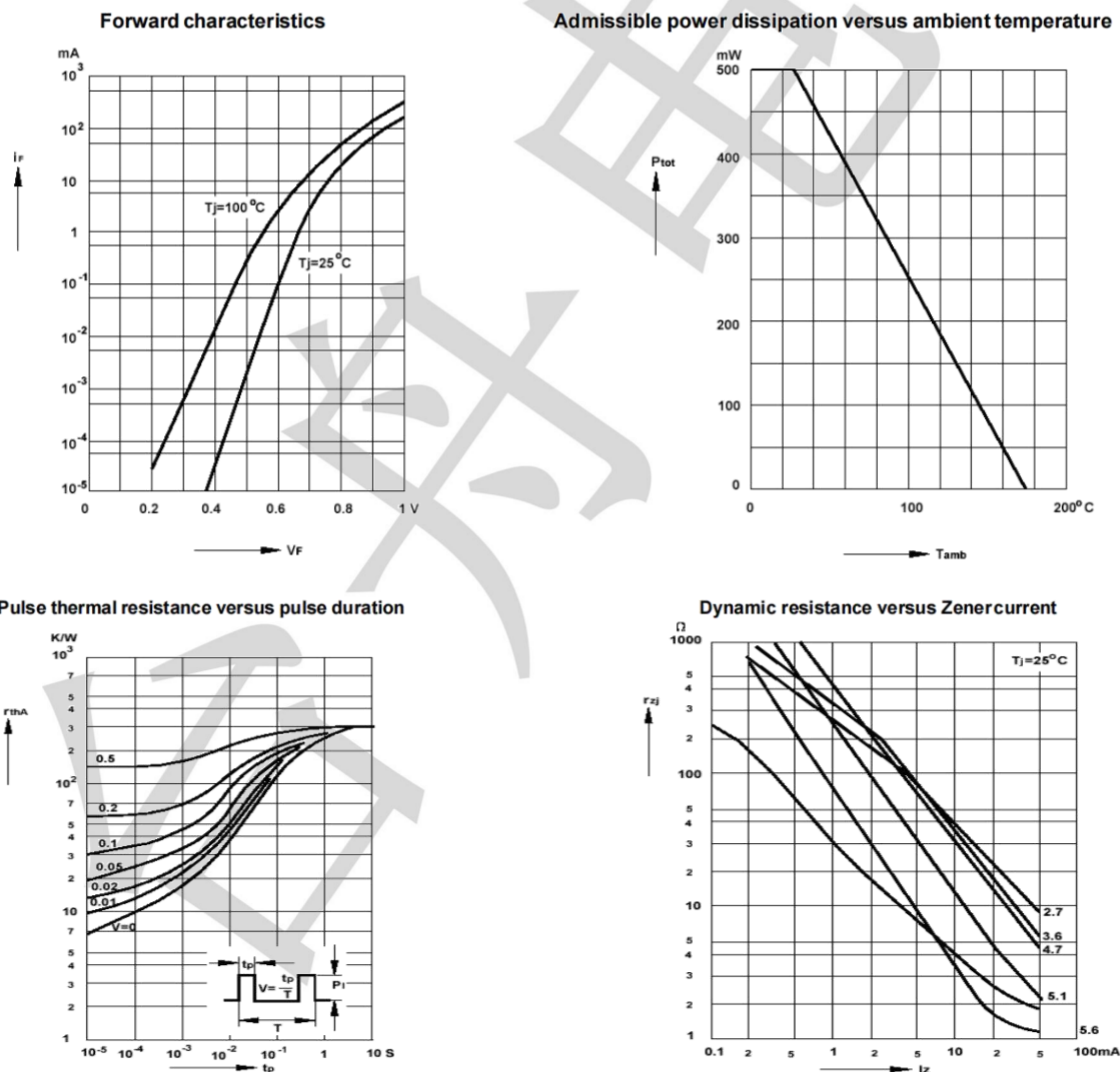
(Tamb=25°C unless otherwise specified)

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

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

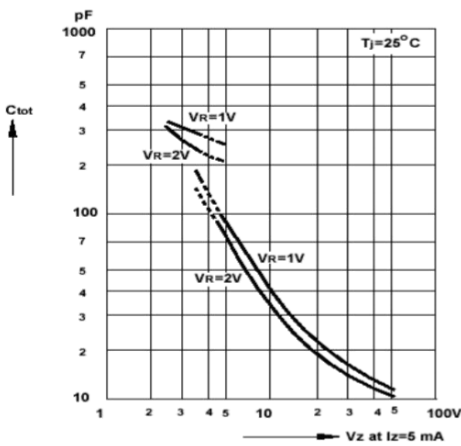
Device	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current			Typical Temperature coefficient @ IZTC=mV/°C		Test Current IZTC
	Vz@Izt			Izt	Zzt @Izt	Zzk @Izk	Izk	IR	VR				
	Nom(V)	Min(V)	Max(V)	mA	Ω		mA	uA	V	Min	Max	mA	
TPZ30VC-123	30	28	32	2	80	300	0.5	0.1	21	24.4	29.4	2	

### Typical Characteristics Curves

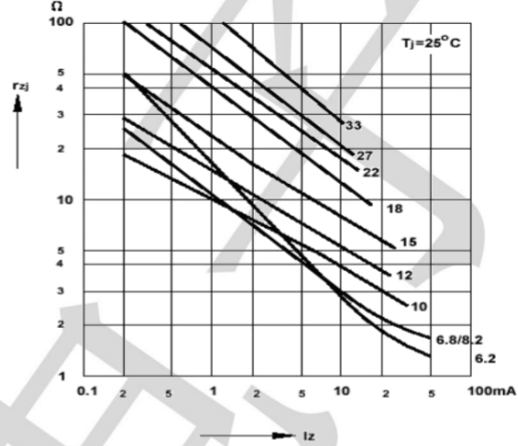


## Typical Characteristics Curves

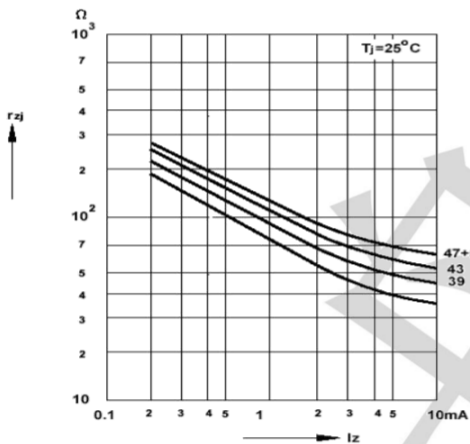
Capacitance versus Zener voltage



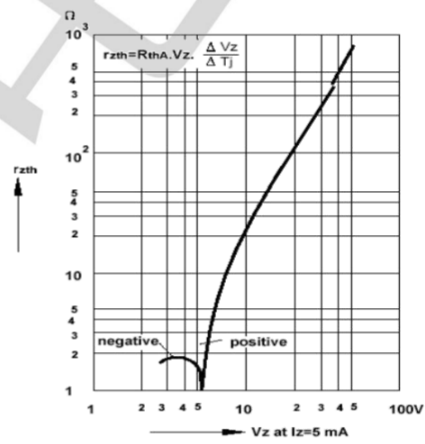
Dynamic resistance versus Zener current



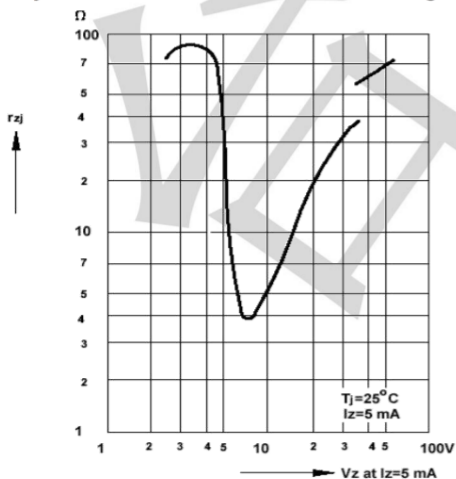
Dynamic resistance versus Zener current



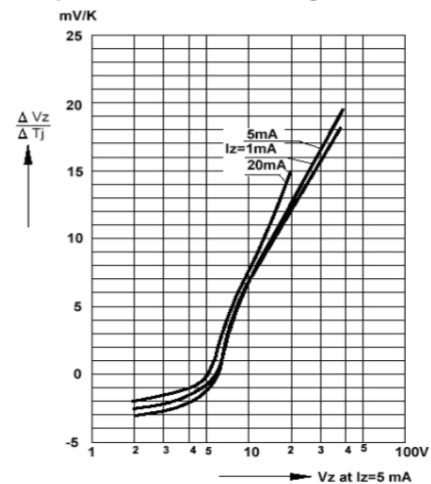
Thermal differential resistance versus Zener voltage



Dynamic resistance versus Zener voltage

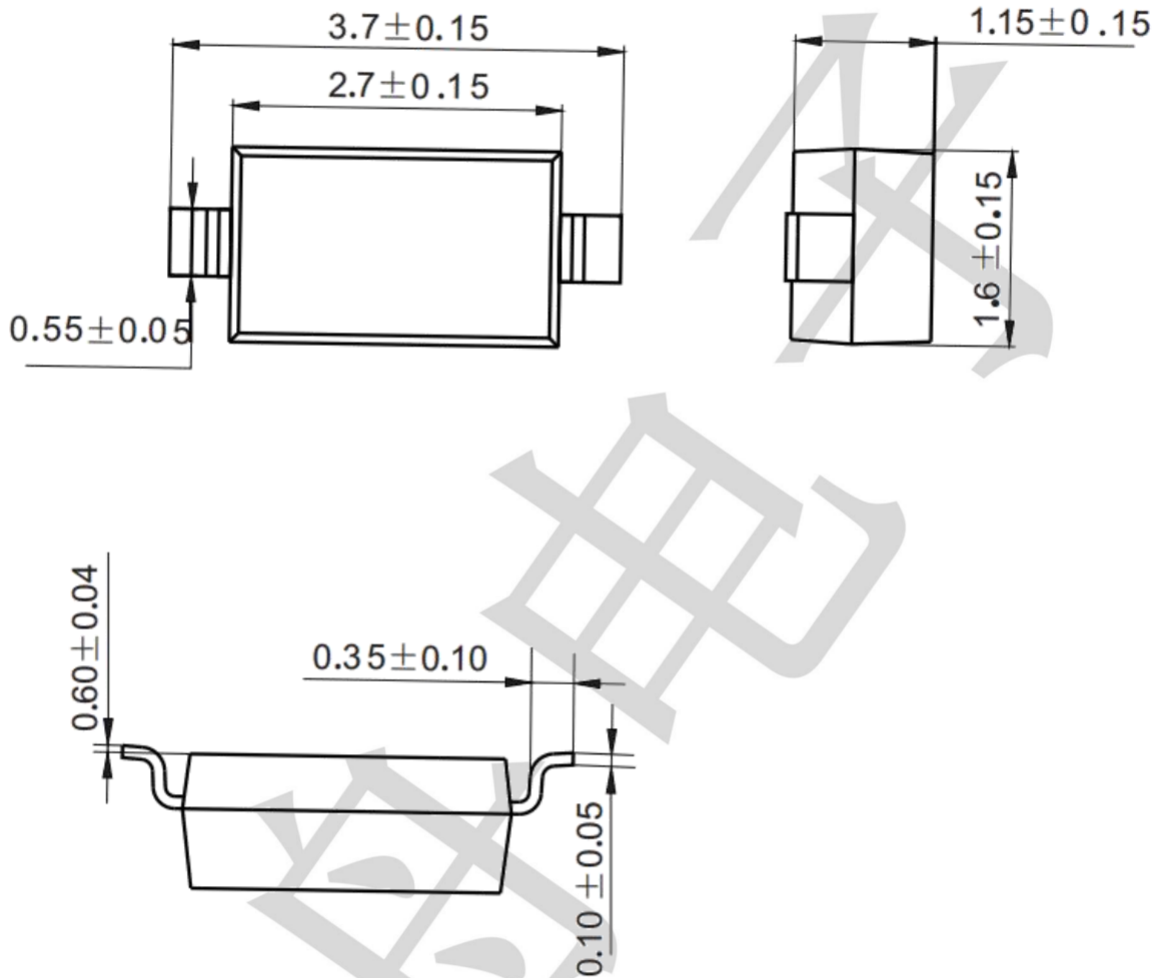


Temperature dependence of Zener voltage versus Zener voltage



**Package Outline Dimensions (unit: mm)**

**SOD123**



**Mounting Pad Layout (unit: mm)**

