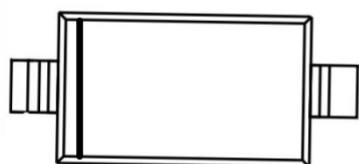


Features

- Low Zener Impedance
- Power Dissipation of 500mW
- High Stability and High Reliability
- Halogen free and RoHS compliant
- SOD323 surface mount package



SOD323

Applications

- General voltage regulation
- Mobile & handheld systems



Pin Configuration

Maximum Ratings& Thermal Characteristics

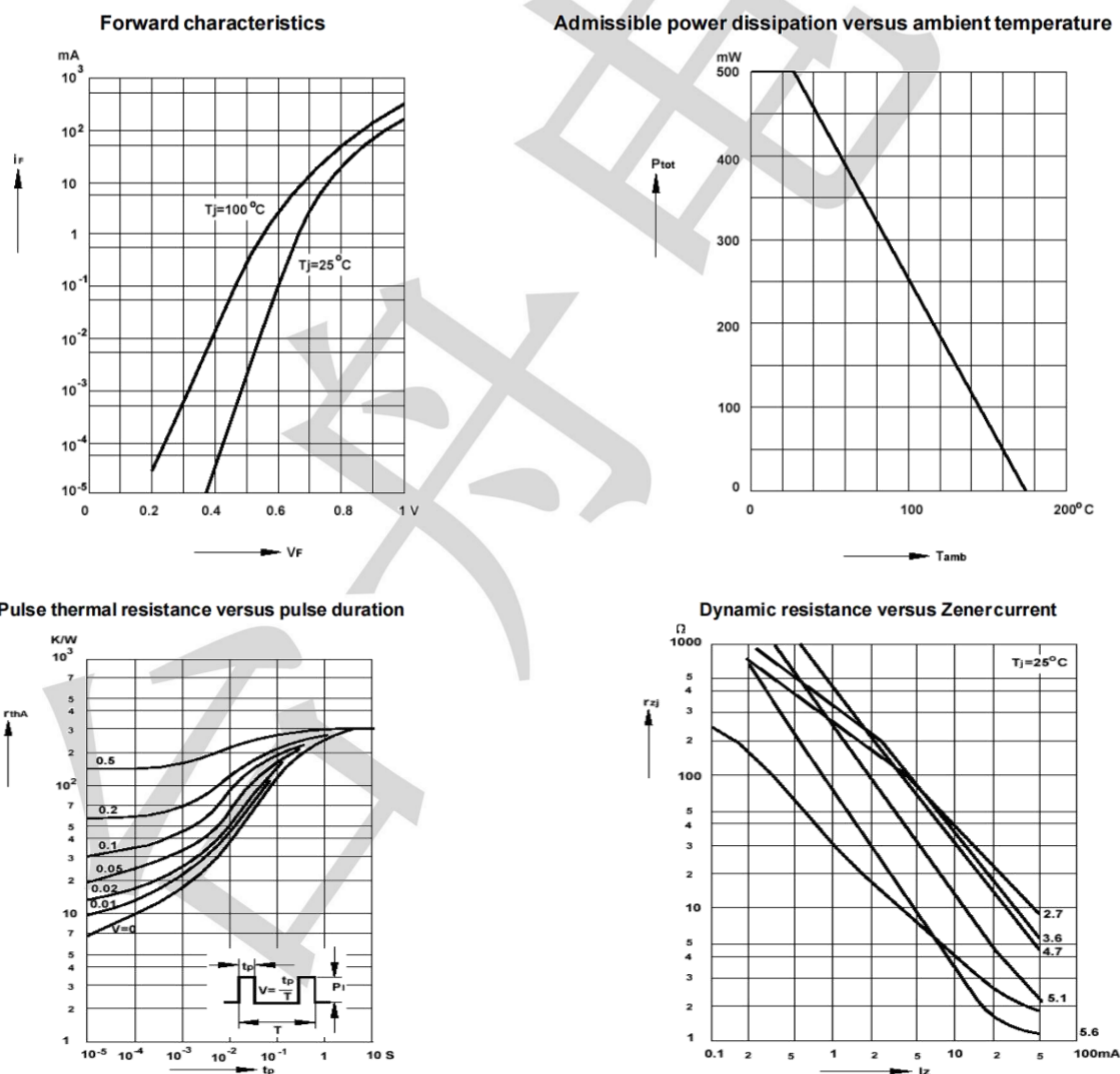
(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Forward Voltage @ IF=10mA	VF	0.9	V
Power Dissipation	PD	200	mW
Thermal Resistance (Junction-to-Ambient)	RθJA	625	°C/W
Thermal Resistance (Junction-to-Case)	RθJC	337	°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
BZT52C27S	27	25.1	28.9	2	80	300	0.5	0.1	18.9	21.4	25.3	2

Typical Characteristics Curves

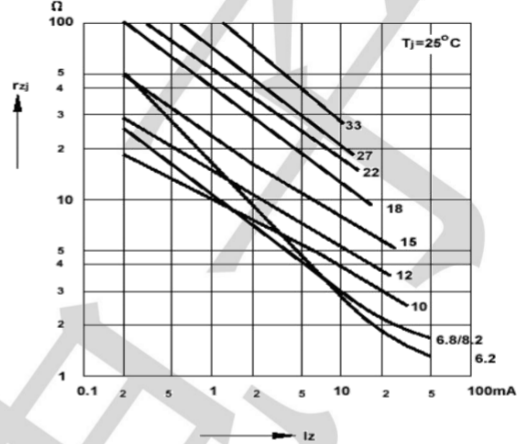


Typical Characteristics Curves

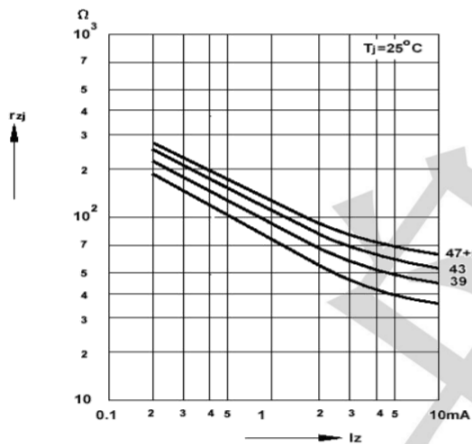
Capacitance versus Zener voltage



Dynamic resistance versus Zener current



Dynamic resistance versus Zener current



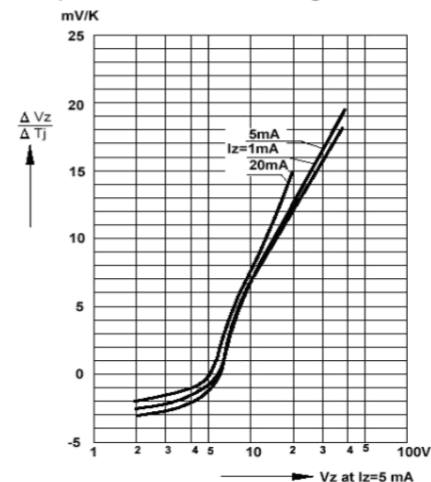
Thermal differential resistance versus Zener voltage



Dynamic resistance versus Zener voltage

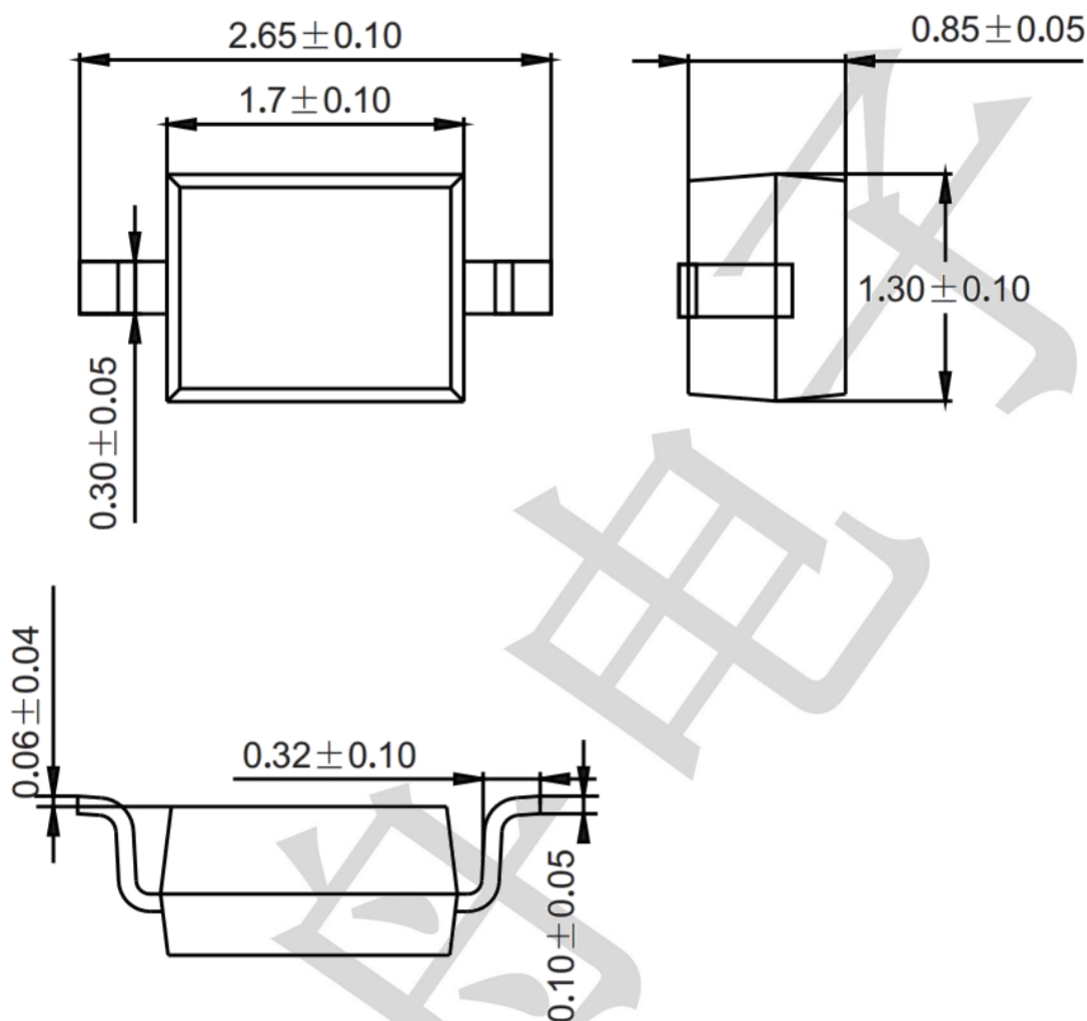


Temperature dependence of Zener voltage versus Zener voltage

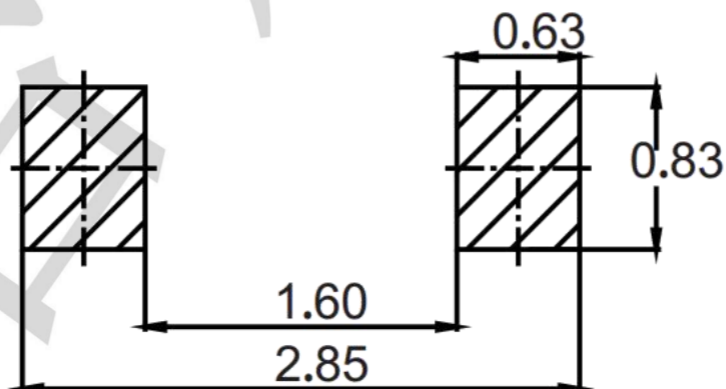


Package Outline Dimensions (unit: mm)

SOD323



Mounting Pad Layout (unit: mm)



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