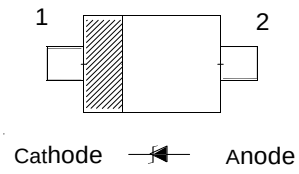
AS18VA201M

SOD-323 Plastic-Encapsulate Zener Diode

Features

- Low Zener Impedance
- Power Dissipation of 200mW
- High Stability and High Reliability



Mechanical Data

- SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Power Dissipation	Pd	200 1)	mW
Forward Voltage @IF=10mA	Vf	0.9 2)	V
Storage temperature range	Ts	-65-+150	℃

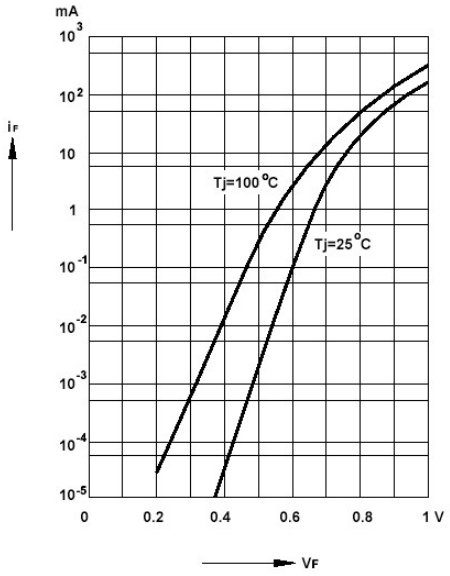
1) Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm²
2) Short duration test pulse used to minimize self-heating effect
3) f=1KHz

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

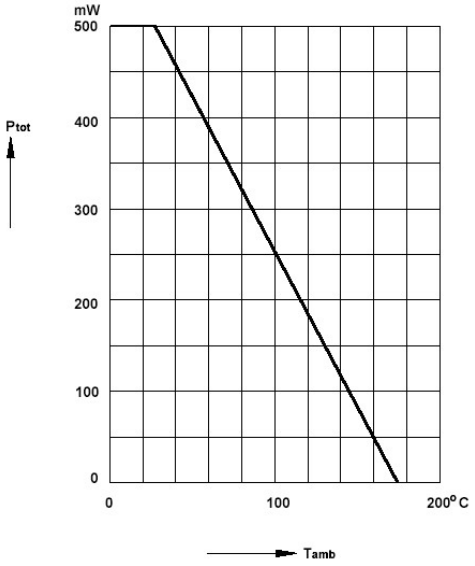
Device	Marking	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current		Typical Temperature coefficent @ IZTC=mV/℃		Test Current IZTC
		Vz@Izt			Izt	Zzt @Izt	Zzk @Izk	Izk	IR	VR			
		Nom(V)	Min(V)	Max(V)	mA	Ω		mA	uA	V	Min	Max	mA
AS18VA201M	2WL	18	17.64	18.36	2	45	225	1.0	0.1	12.6	12.4	16.0	2

SOD-323 Plastic-Encapsulate Zener Diode

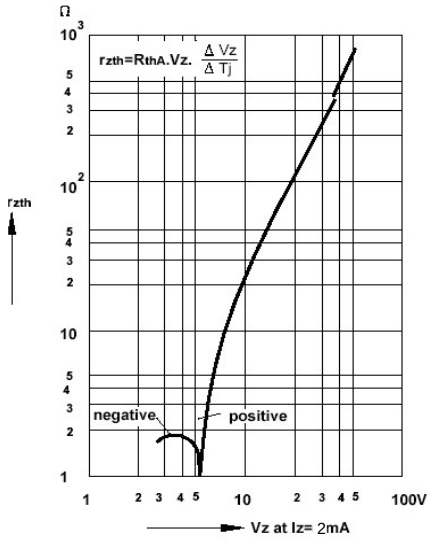
Forward characteristics



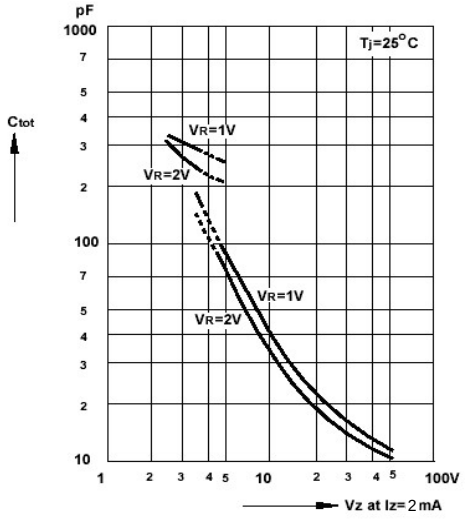
Admissible power dissipation versus ambient temperature



Thermal differential resistance versus Zener voltage

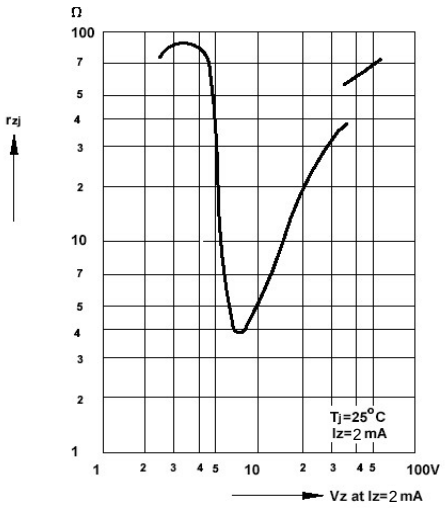


Capacitance versus Zener voltage

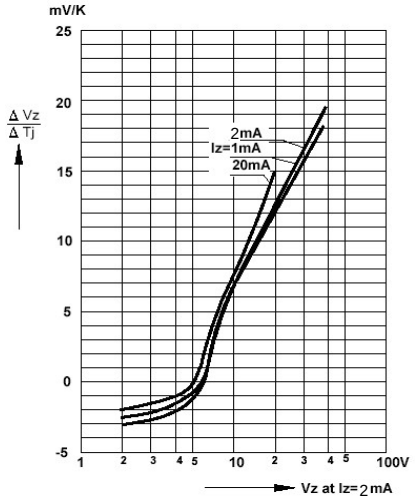


SOD-323 Plastic-Encapsulate Zener Diode

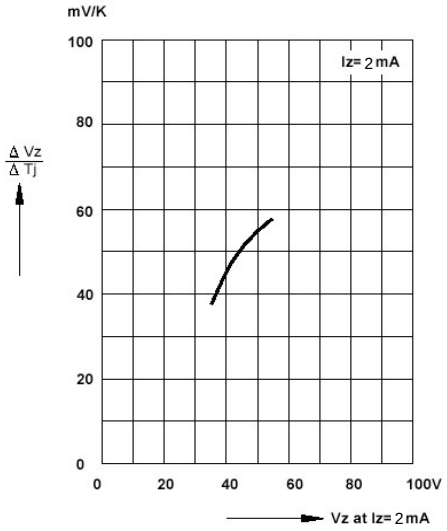
Dynamic resistance versus Zener voltage



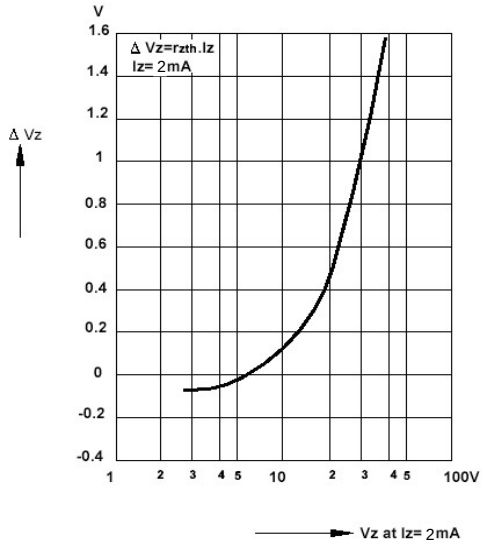
Temperature dependence of Zener voltage versus Zener voltage



Temperature dependence of Zener voltage versus Zener voltage

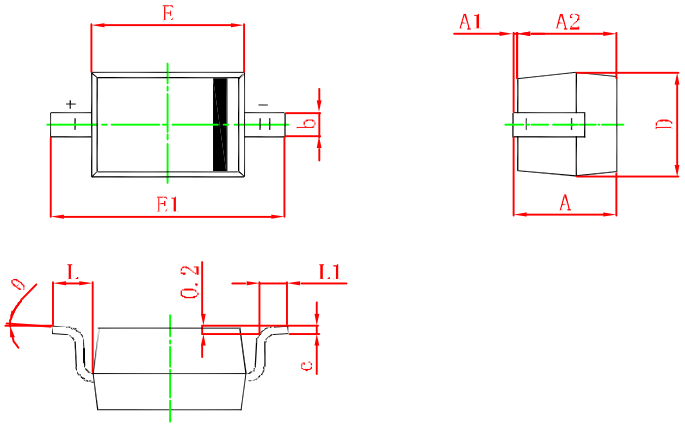


Change of Zener voltge from turn-on up to the point of thermal equilibrium versus Zener voltage



SOD-323 Plastic-Encapsulate Zener Diode

SOD-323 PACKAGE OUTLINE Plastic surface mounted package



Symbol	Min.(mm)	Max.(mm)
A	0.800	1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	**0°**	**8°**