

DATA SHEET

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/ Descriptions

SOD-323

Zener Diode in a SOD-323 Plastic Package.

/ Features

200mW

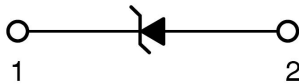
AEC-Q101

200mW Power dissipation, medium current, automated assembly processes, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

/ Applications

2.4V-39V

2.4V to 39V wide zener voltage range applications, Meet the stringent requirements of automotive applications.

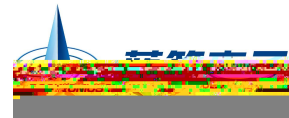
/ Equivalent Circuit**/ Pinning**

PIN1:Cathode

PIN2:Anode

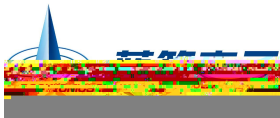
/ Marking

See Electrical Characteristics.



参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Forward Voltage (Note 2) ($I_F=10\text{mA}$)	V_F	0.9	V
Power Dissipation(Note 1)	P_D	200	mW
Typical Thermal Resistance Junction to Ambient(Note 1)	$R_{\theta JA}$	625	$^{\circ}\text{C}/\text{W}$
Junction and Storage Temperature Range	T_j, T_{stg}	-65~150	$^{\circ}\text{C}$

Type	Number	Mark- ing Code	Zener Voltage Range (Note 2)				Maximum Zener mpedance (Note 3)			Maximum Reverse Current (Note 2)		Typical Temperature Coefficient @I _{ZTC} mV/°C		Test Curre nt I _{ZTC}
			V _z @I _{ZT}			I _{ZT}	Z _{ZT} @I _{ZT}	Z _{ZK} @I _{ZK}	I _{ZK}	I _R	@V _R			
			Nom (V)	Min (V)	Max (V)	mA	Ω		mA	μA	V	Min	Max	



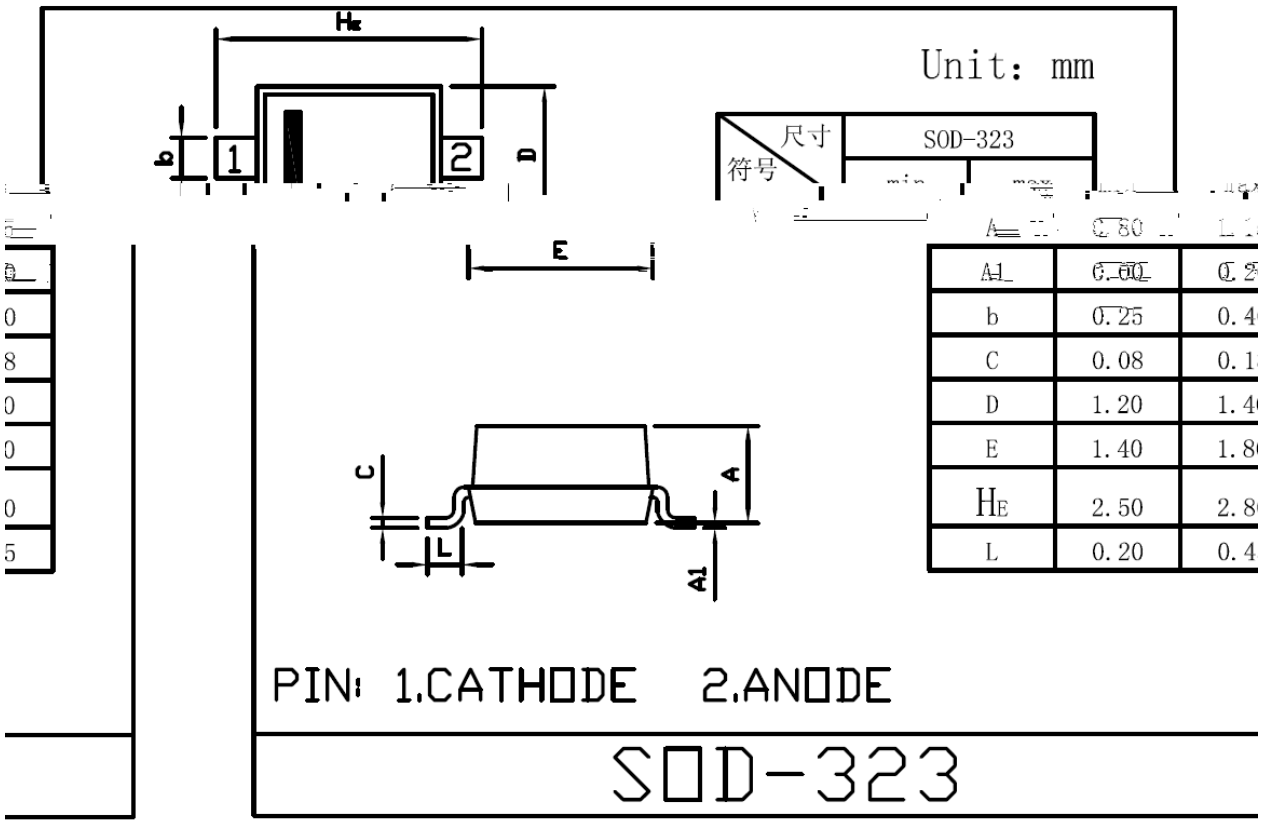
/ Electrical Characteristics(Ta=25)

Type	Number	Marking Code	Zener Voltage Range (Note 2)	Maximum Zener mpedance (Note 3)	Maximum Reverse Current (Note 2)	Typical Temperature Coefficient @I _{ZTC} mV/°C	Test Curre nt I _{ZTC}
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/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



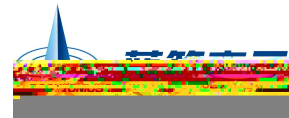
Q

WX

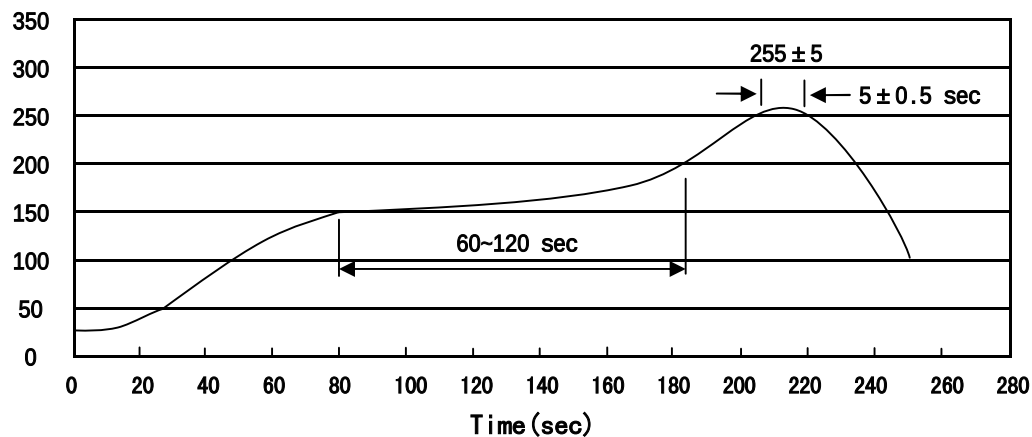
Note:

Q: Automobile halogen-free product Code

WX: Product Type



() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1 150 200 60 120sec; 1.Preheating:150~200°C, Time:60~120sec.
- 2 255±5 5±0.5sec; 2.Peak Temp.:255±5°C, Duration:5±0.5sec.
- 3 2 10°C/sec. 3. Cooling Speed: 2~10°C/sec.

/ Resistance to Soldering Heat Test Conditions

260±5°C

10±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension		(unit mm ³)
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱			
						"		

/ Notices