



/ Revised record

H	2018-4				
I	2018-11-2	3	"Notes:1. Part mounted on FR-4 PC board with recommended pad layout, as per http://www.diodes.com/datasheets/ap02001.pdf." " Notes:1. Device mounted on ceramic PCB; 7.6mm x 9.4mm x 0.87mm with pad areas 25mm²."		
A	2022-4-13	all	BR Q AEC-Q101 , H Q 245 ±5°C 5±0.5sec 255±5°C 5±0.5sec		

/ Descriptions

SOD-323

Zener Diode in a SOD-323 Plastic Package.

/ Features

200mW

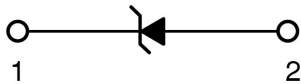
AEC-Q101

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.



Parameter	Symbol	Rating	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	$^{\circ}\text{C/W}$
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	mA	

/ Electrical Characteristics(Ta=25)

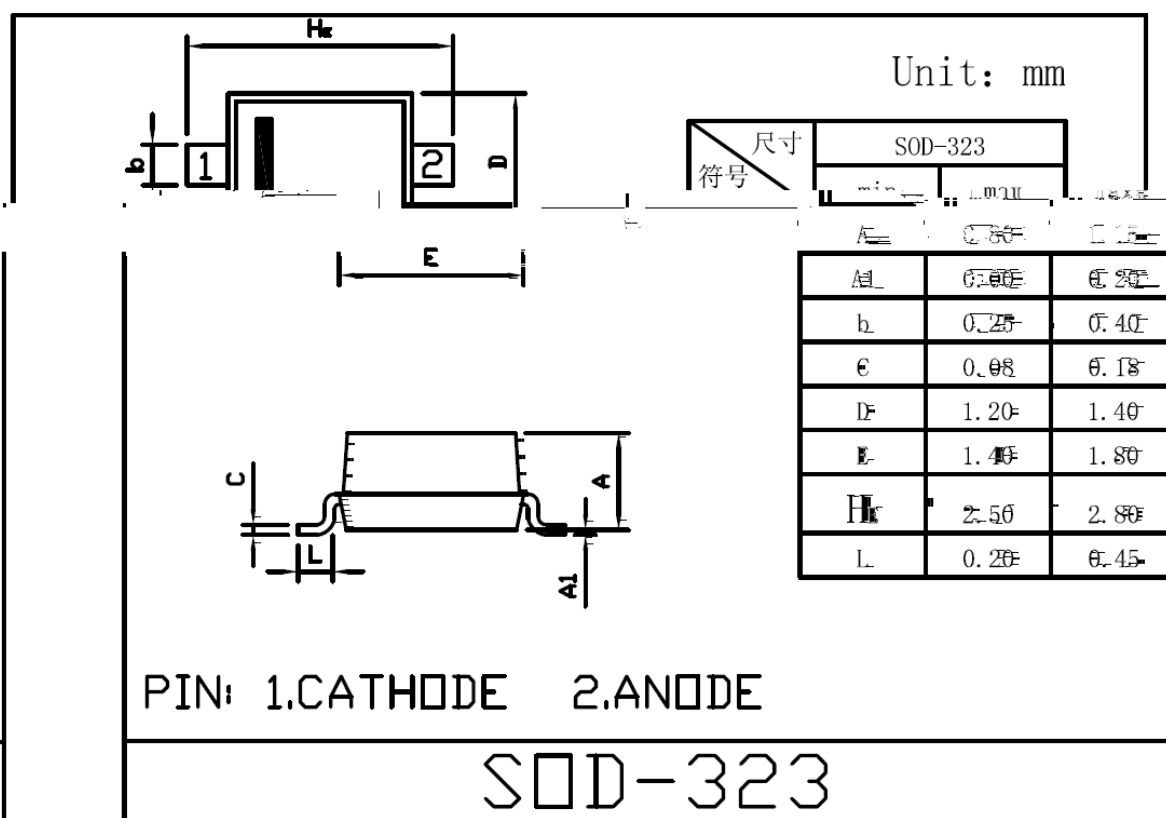
Type	Number	Marking Code	Zener Voltage Range (Note 2)	Maximum Zener mpedance (Note 3)	Maximum Reverse Current (Note 2)	Typical Temperature Coefficient @I _{ZTC} mV/°C	Test Curre nt I _{ZTC}
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/ Electrical Characteristic Curve

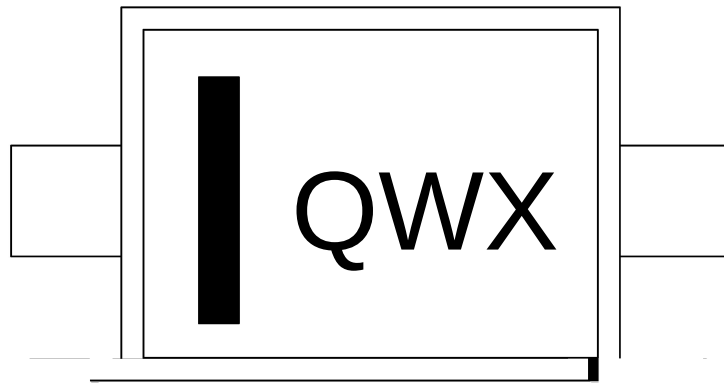




/ Package Dimensions



/ Marking Instructions



Q

WX

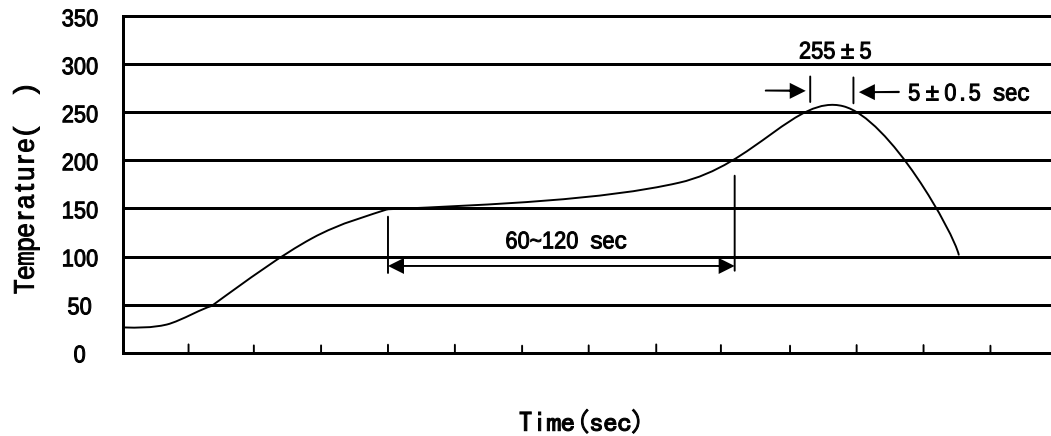
Note:

Q: Automobile halogen-free product Code

WX: Product Type



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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)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box	Outer Box
SOD-323	3,000	10	30,000	6	180,000	7" ×8	180×120×180	390×385×205

/ Notices