

--	--	--	--	--

/ Descriptions

SOD-323

Zener Diode in a SOD-323 Plastic Package.

/ Features

200mW

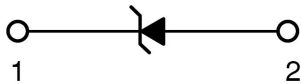
AEC-Q101

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

/ Applications

2.4V-3 V

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	$^{\circ}\text{C}/\text{W}$
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
------	--------	----------------------	---------------------------------	------------------------------------	---	---

**/ 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}
------	--------	-----------------	---------------------------------	------------------------------------	---	---	--------------------------------------

BRBZT52CXXXSQ

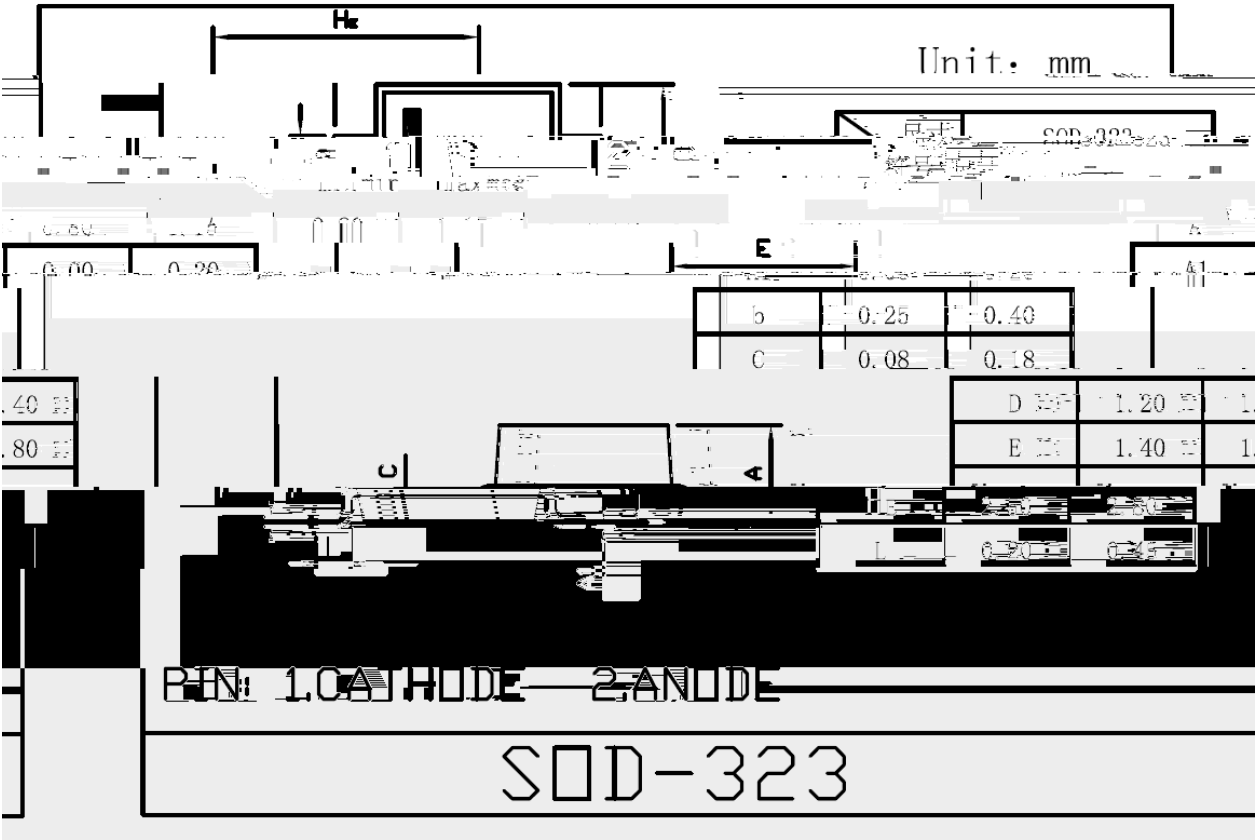
Rev.A Apr.-2022



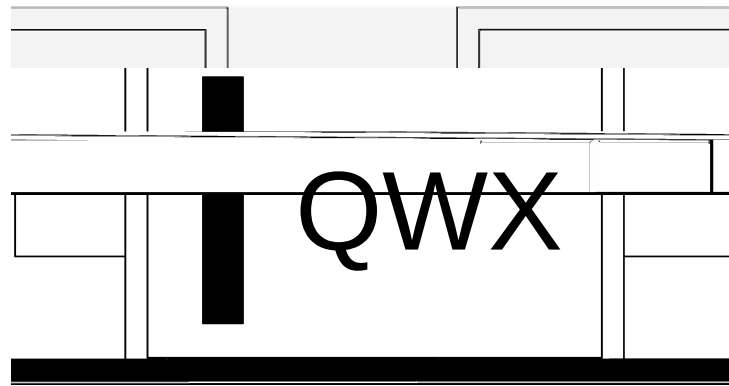
DATA SHEET

/ E

/ Package Dimensions



/ Marking Instructions



Q

WX

Note:

Q: Automobile halogen-free product Code

WX: Product Type

() / Temperature

1	150	200	60	120s
2	255±5		5±0.5	
3		2	10°C/sec.	

/ Resistance to So

260±5°C	10±1 sec.
---------	-----------

/ Packaging SPEC.

/ REEL

Package Type	Units						Reel	Inner Box	Outer Box
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /				