

**BRBZT52CXXSQ**

Rev.A Apr.-2022



**DATA SHEET**

3

--	--	--	--	--

# BRBZT52CXXSQ

Rev.A Apr.-2022



DATA SHEET

## / Descriptions

SOD-323

Zener Diode in a SOD-323 Plastic Package.

## / Features

200mW

AEC-Q101

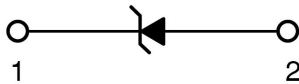
200mW Power dissipation, medium current, automated assembly processes, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

## / 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.

# BRBZT52CXXSQ

Rev.A Apr.-2022



DATA SHEET

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)	$R_{JA}$	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
-------------	----------------------	---------------------------------	------------------------------------	---	---

# BRBZT52CXXSQ

Rev.A Apr.-2022



DATA SHEET

## / Electrical Characteristics(Ta=25 )

Type	Number	Marking Code	Zener Voltage Range (Note 2)	Maximum Zener impedance (Note 3)	Maximum Reverse Current (Note 2)	Typical Temperature Coefficient @ I <sub>ZTC</sub> mV/°C	Test Current I <sub>ZTC</sub>
------	--------	--------------	------------------------------	----------------------------------	----------------------------------	--	-------------------------------

**BRBZT52CXXSQ**

Rev.A Apr.-2022

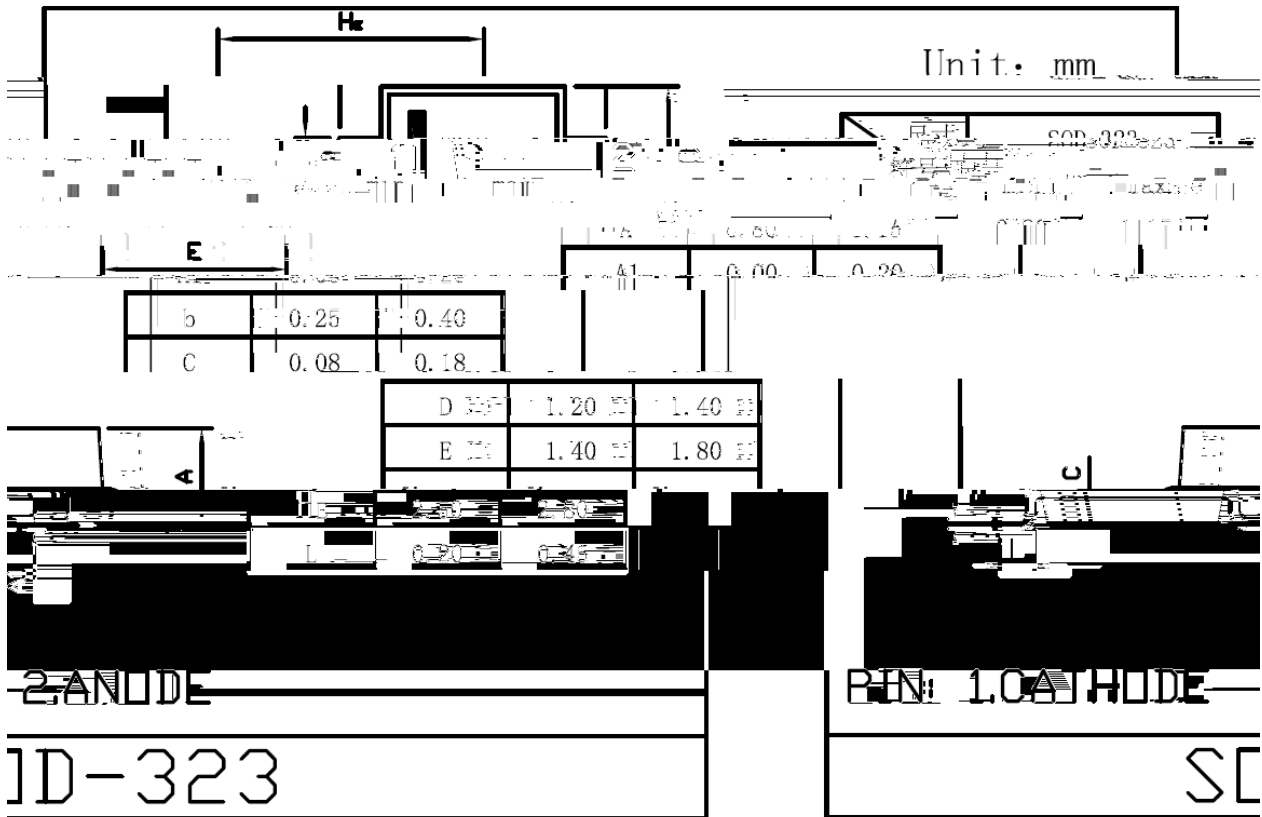


**DATA SHEET**

/ E

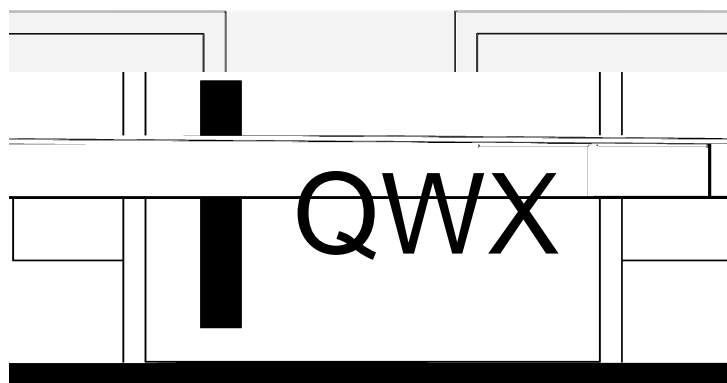


**/ Package Dimensions**





**/ Marking Instructions**



Q

WX

Note:

Q: Automobile halogen-free product Code

WX: Product Type

# BRBZT52CXXSQ

Rev.A Apr.-2022

## ( ) / 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						
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box