

**/ Descriptions**

SOT-23

Zener Diode in a SOT-23 Plastic Package.

**/ Features**

300mW

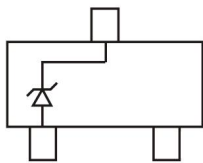
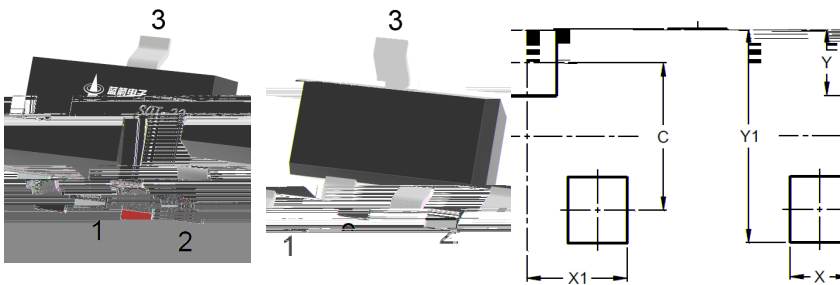
AEC-Q101

300mW power dissipation, Ideally Suited for Automated Assembly, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

**/ Applications**

2.4V-51V

2.4V to 51V wide zener voltage range applications, Meet the stringent requirements of automotive applications.

**/ Equivalent Circuit****/ Pinning**

PIN: See Equivalent Circuit.

**/ Marking**

See Electrical Characteristics.

## Rev.A Sep.-2022



**蓝箭电子**  
BLUE ROCKET ELECTRONICS

| Parameter                              | Symbol                            | Rating  | Unit |
|----------------------------------------|-----------------------------------|---------|------|
| Forward Volt/T272e(10mA)               | V <sub>F</sub>                    | 0.9     | V    |
| Power Dissipation(Note 1)              | P <sub>D</sub>                    | 300     | mW   |
| Power Dissipation(Note 4)              | P <sub>D</sub>                    | 350     | mW   |
| (Note 1)                               | R <sub>θJA</sub>                  | 417     | /W   |
| (Note 4)                               | R <sub>θJA</sub>                  | 357     | /W   |
| Junction and Stor72e Temperature Range | T <sub>j</sub> , T <sub>stg</sub> | -65 150 |      |

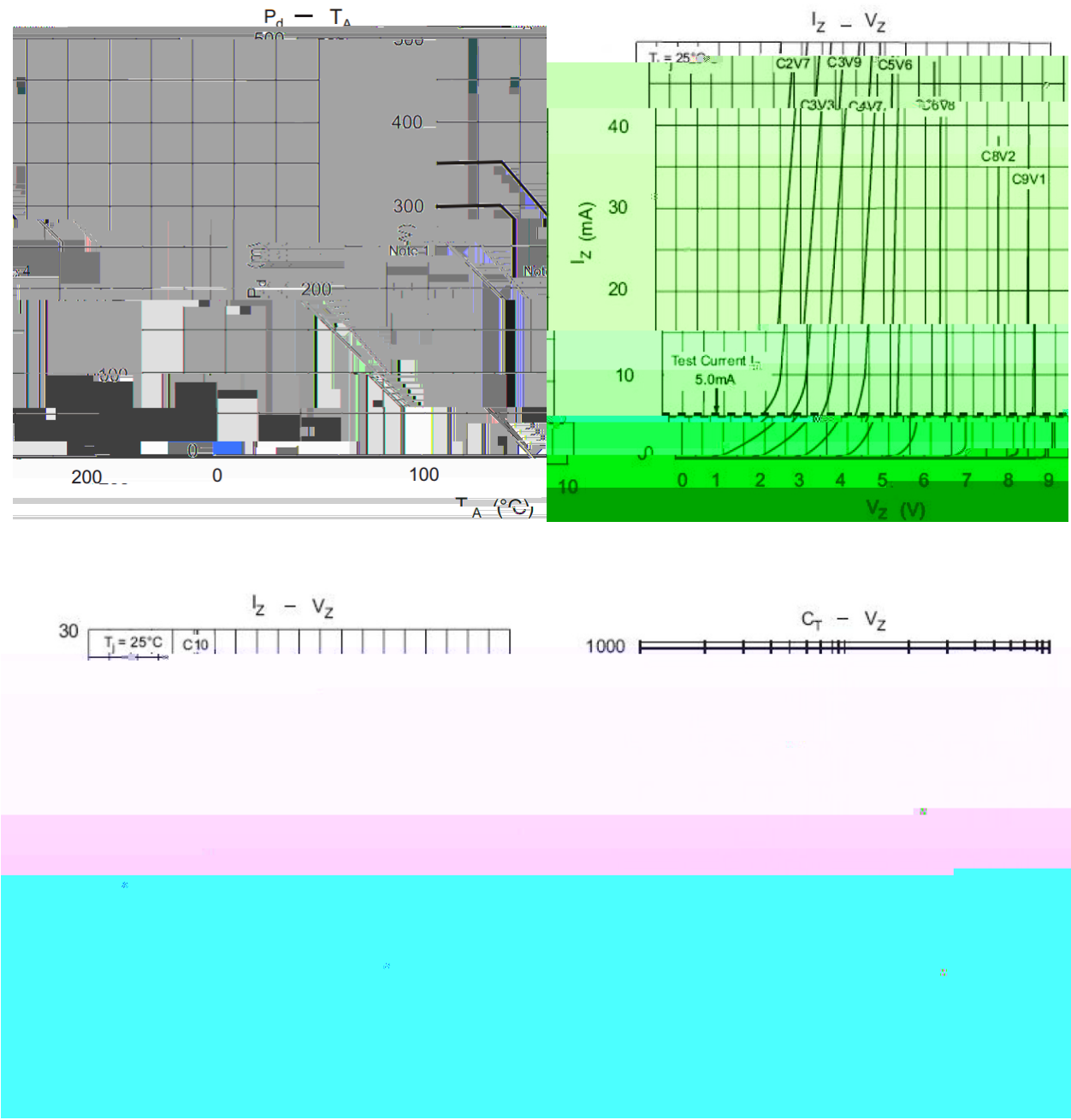
Zener Volt9.2(ag)-6(e Ran)-6(g).7(e)-6( )TJ2.9145 -1.1467 TD-.0015 TC.003860W/(Not 1e02))-8.620TJ12.

| Type | Number | Marking Code |
|------|--------|--------------|
|------|--------|--------------|

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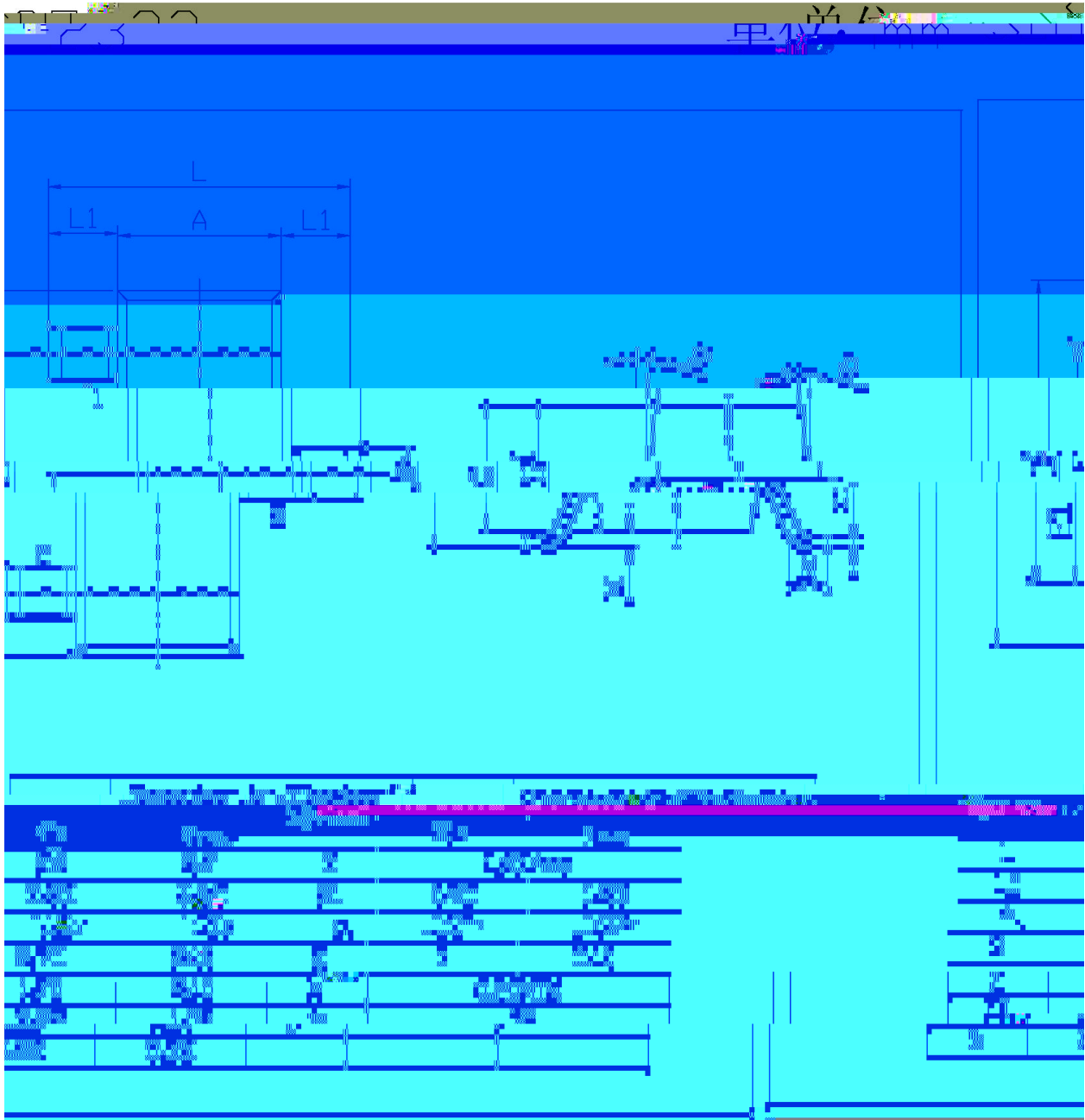


/ Electrical Characteristic Curve



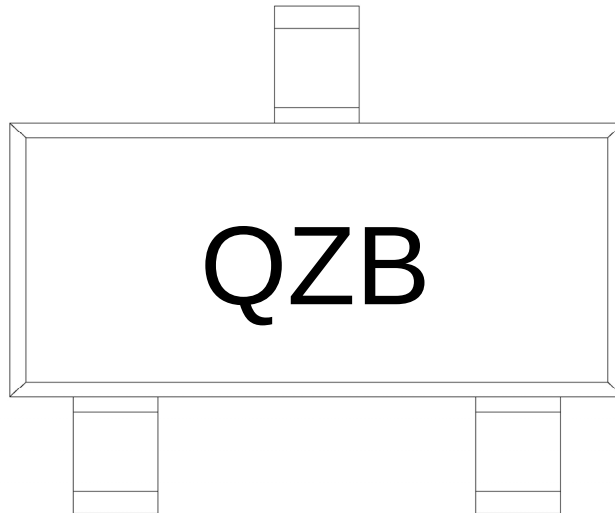


## / Package Dimensions





/ Marking Instructions



Q

ZB

Note:

Q: Automobile halogen-free product Code

ZB: Product Type

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

|  |
|--|
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|  |
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|  |
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|  |

Note:

- |   |       |     |            |                                         |                                        |
|---|-------|-----|------------|-----------------------------------------|----------------------------------------|
| 1 | 150   | 200 | 60         | 120sec;                                 | 1.Preheating:150~200 , Time:60~120sec. |
| 2 | 255±5 |     | 5±0.5sec;  | 2.Peak Temp.:255±5 , Duration:5±0.5sec. |                                        |
| 3 | 2     | 60  | peed: 2~10 | 0                                       |                                        |