## / Descriptions

SOT-23
Zener Diode in a SOT-23 Plastic Package.

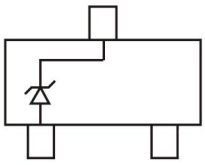
## / Features

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

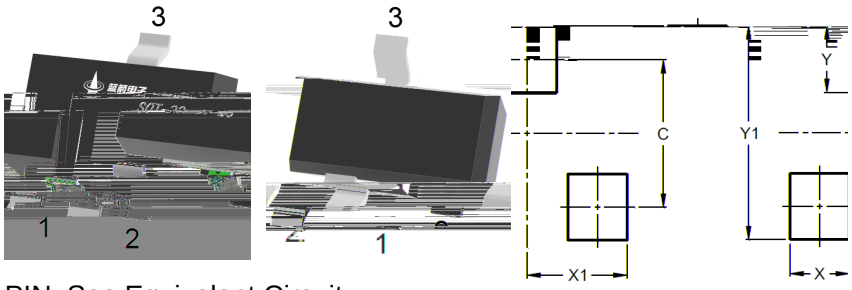
## / Applications

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

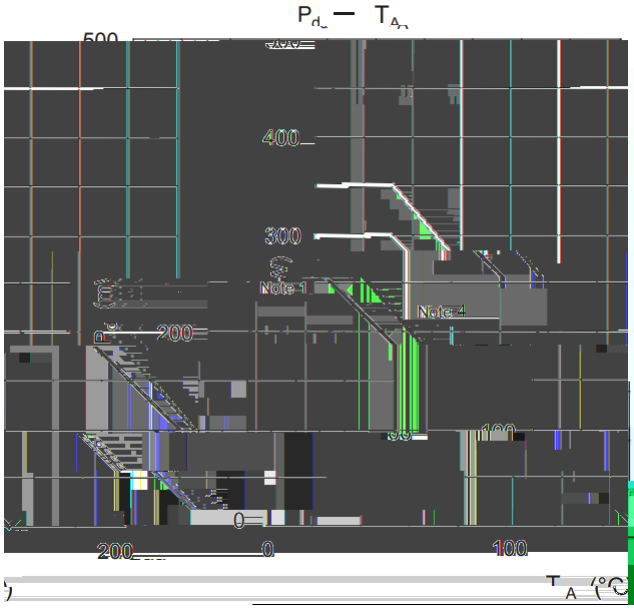
See Electrical Characteristics.

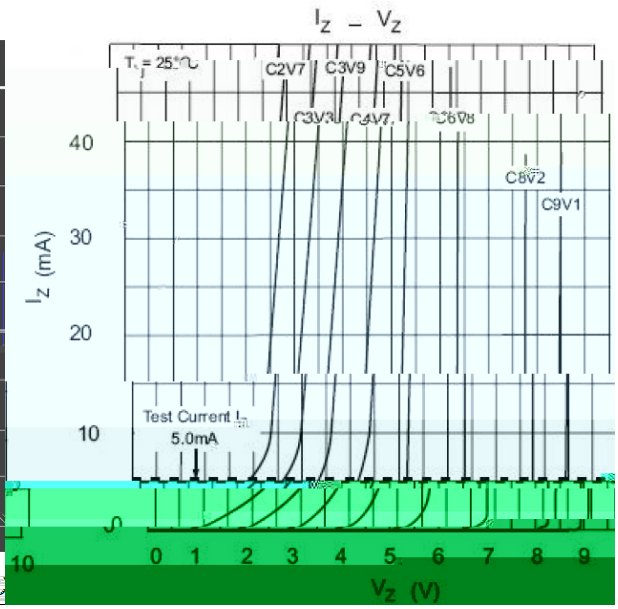
| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Forward Volt/T27e(10mA) | $V_F$ | 0.9 | V |
| Power Dissipation(Note 1) | $P_D$ | 300 | mW |
| Power Dissipation(Note 4) | $P_D$ | 350 | mW |
| (Note 1) | $R_{\theta JA}$ | 417 | /W |
| (Note 4) | $R_{\theta JA}$ | 357 | /W |
| Junction and Stor72e Temperature Range | $T_j$,$T_{stg}$ | -65 150 | |

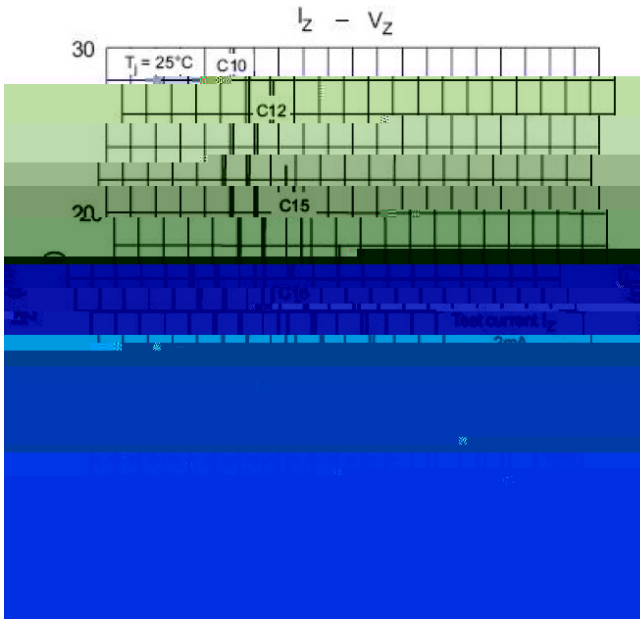
Zener Volt9.2(ag)-6(e Ran)-6(g).7(e)-6( )]TJ2.9145 -1.1467 TD-.0015 Tc.0038 Tw[(Note 2))-8.6(0)]TJ12.

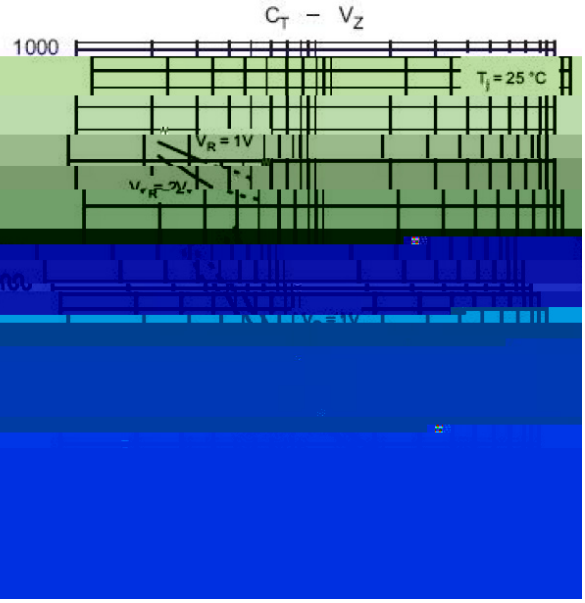
| Type Number | Marking Code | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BRBZX84C3V3Q | QZE | 3.3 | 3.1 | 3.5 | 5. | | | | | | | |
| ~~BRBZX84C3V6Q~~ | ~~QZF~~ | ~~3.6~~ | ~~3.4~~ | ~~3.8~~ | ~~5.~~ | | | | | | | |
| BRBZX84C3V9Q | QZG | 3.9 | 3.7 | 4.1 | 5. | | | | | | | |
| BR | | | | | | | | | | | | |
| ~~BRBZX84C10Q~~ | ~~QZ9~~ | ~~10~~ | ~~9.4~~ | ~~10.6~~ | ~~5.~~ | | | | | | | |

## / Electrical Characteristic Curve

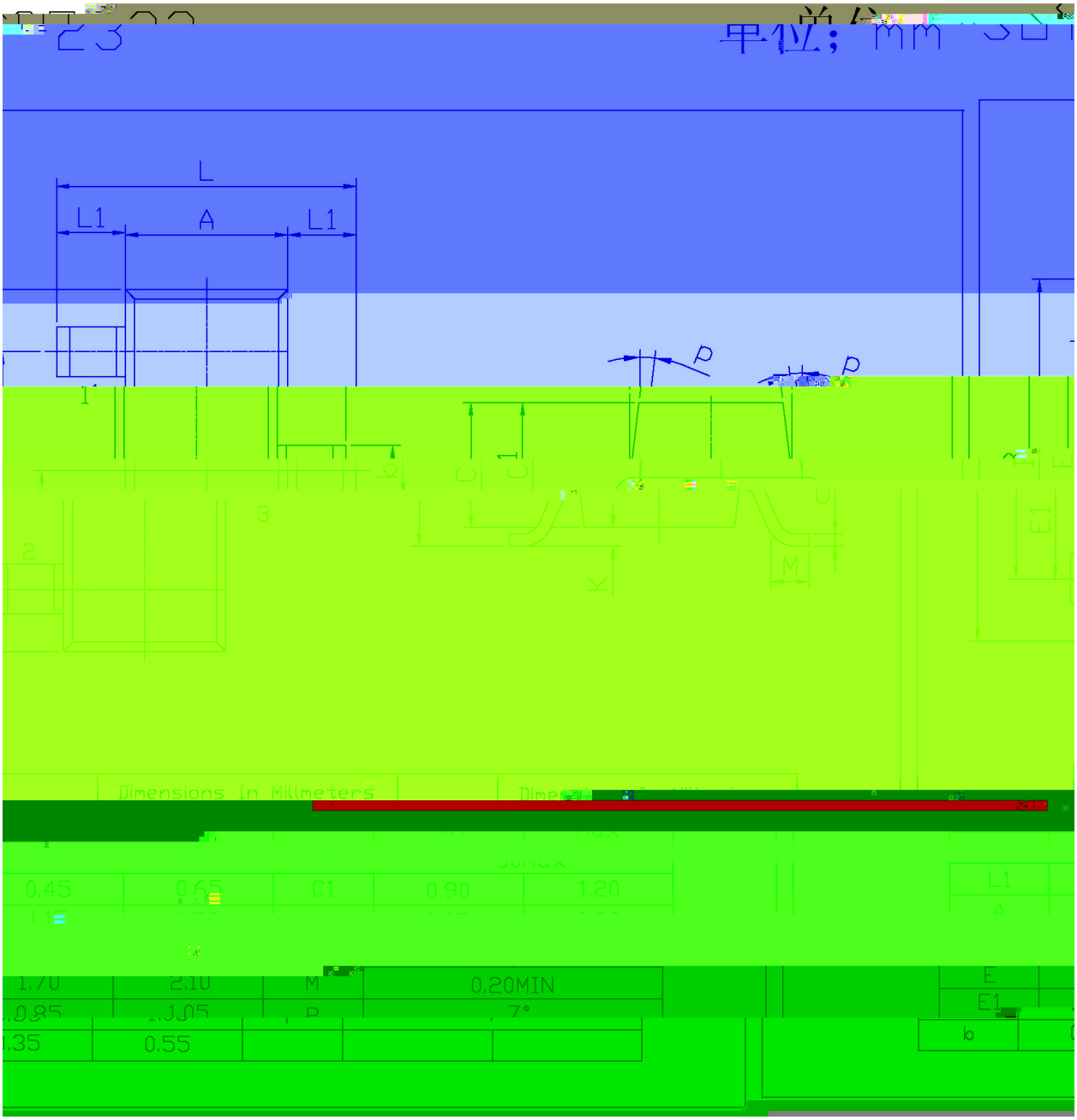


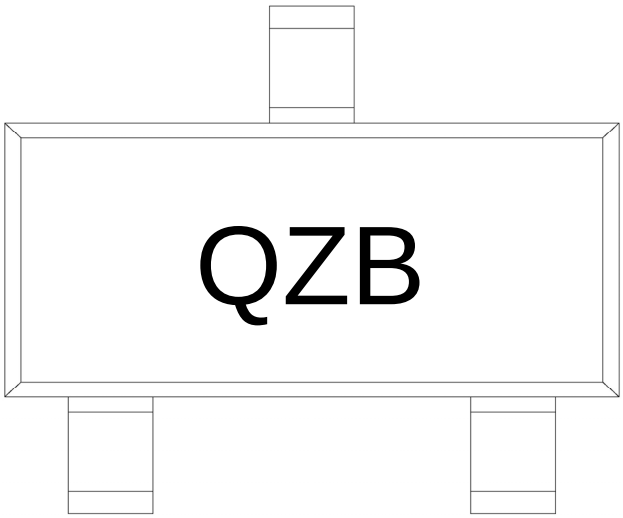



## / Package Dimensions



## / 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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| |

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 | |