

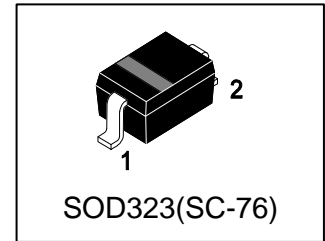
LM3Z30VT1G

S-LM3Z30VT1G

Zener Voltage Regulators
200 mW SOD-323 Surface Mount

1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.
- Steady state power rating of 200 mW
- ESD rating of class 3 per human body model

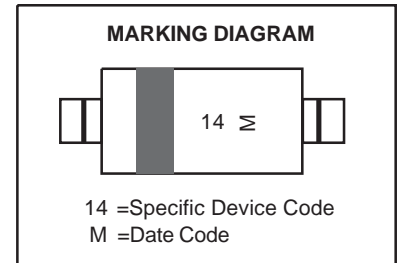


2. DEVICE MARKING AND ORDERING INFORMATION

| Device | Marking | Shipping |
|------------|---------|-----------------|
| LM3Z30VT1G | 14 | 3000/Tape&Reel |
| LM3Z30VT3G | 14 | 10000/Tape&Reel |

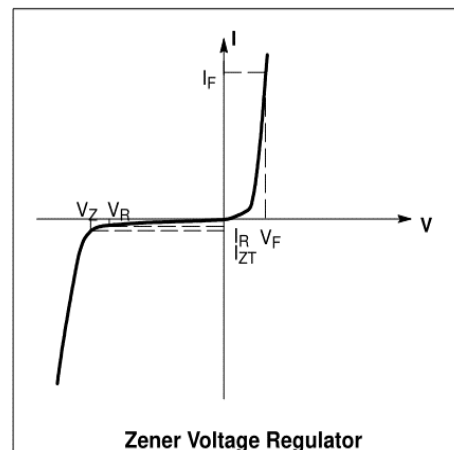
3. THERMAL CHARACTERISTICS

| Parameter | Symbol | Limits | Unit |
|---|----------|------------|-------------|
| Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C | PD | 200 1.5 | mW mW/°C |
| Thermal Resistance, Junction-to-Ambient | RθJA | 635 | °C/W |
| Junction and Storage temperature | TJ, Tstg | -65 ~ +150 | °C |



4. ELECTRICAL CHARACTERISTICS (Ta= 25 °C) (VF = 0.9 V Max. @ IF = 10 mA for all types)

| Symbol | Parameter |
|--------|---|
| VZ | Reverse Zener Voltage @ IZT |
| IZT | Reverse Current |
| ZZT | Maximum Zener Impedance @ IZT |
| IZK | Reverse Current |
| ZZK | Maximum Zener Impedance @ IZK |
| IR | Reverse Leakage Current @ VR |
| VR | Reverse Voltage |
| IF | Forward Current |
| VF | Forward Voltage @ IF |
| θVZ | Maximum Temperature Coefficient of VZ |
| C | Max. Capacitance @ VR = 0 and f = 1 MHz |

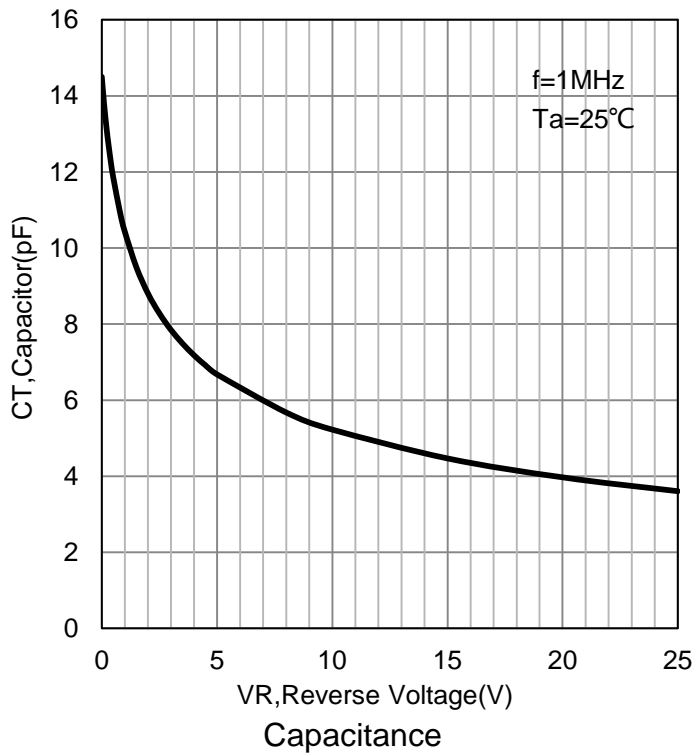
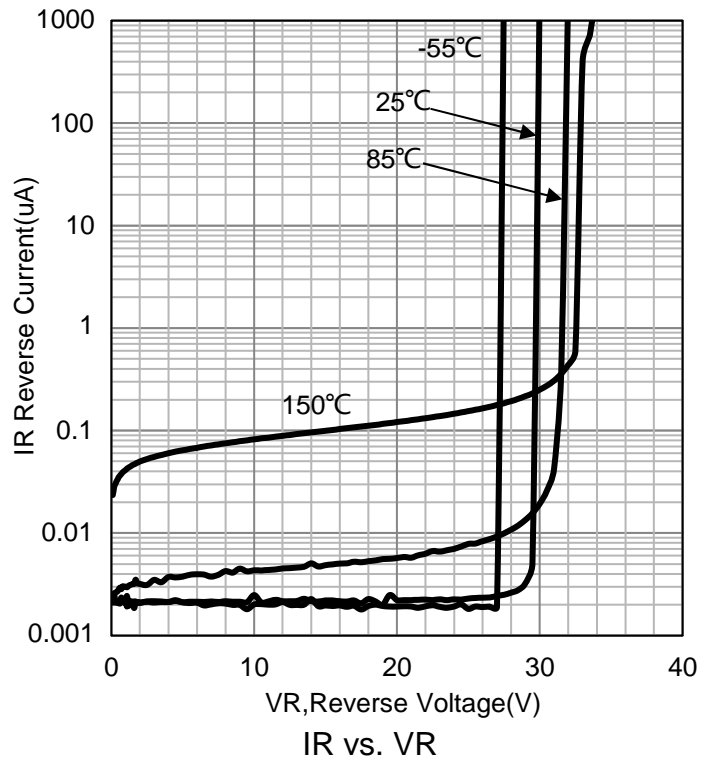
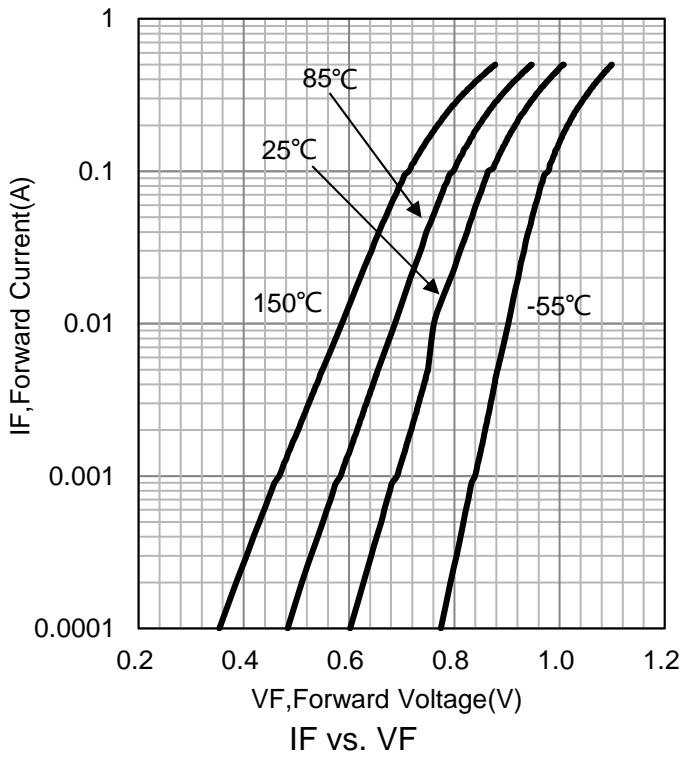


5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

| Characteristic | Symbol | Min. | Typ. | Max. | Unit |
|--|--------|------|------|------|------|
| Zener voltage (IZT=2mA) | VZ | 28 | 30 | 32 | V |
| Operating resistance (IZT=2mA) | ZZT | - | - | 80 | Ω |
| Rising operating resistance (IZK=0.5mA) | ZZK | - | - | 300 | Ω |
| Reverse current (VR=21V) | IR | - | - | 0.05 | μA |
| Maximum Temperature Coefficient of VZ (IZT=2mA) | ΘVZ | 24.4 | - | 29.4 | mV/k |
| Capacitance (VR=0 , f=1 MHz) | C | - | - | 70 | pF |

1. FR-4 Minimum Pad
2. Zener voltage is measured with a pulse test current IZ at an ambient temperature of 25°C.

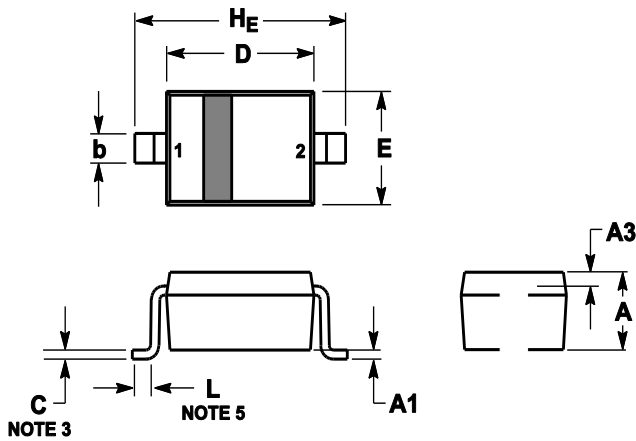
6. ELECTRICAL CHARACTERISTICS CURVES



7. OUTLINE AND DIMENSIONS

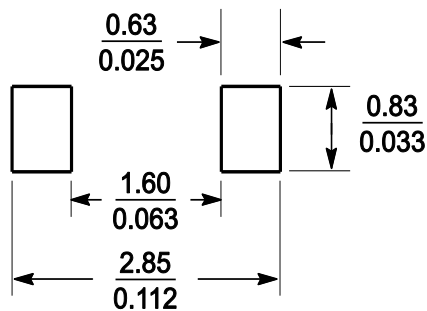
Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.



| DIM | MILLIMETERS | | | INCHES | | |
|-------|-------------|------|-------|----------|-------|-------|
| | MIN | NOM | MAX | MIN | NOM | MAX |
| A | 0.8 | 0.9 | 1 | 0.031 | 0.035 | 0.04 |
| A1 | 0 | 0.05 | 0.1 | 0 | 0.002 | 0.004 |
| A3 | 0.15REF | | | 0.006REF | | |
| b | 0.25 | 0.32 | 0.4 | 0.01 | 0.012 | 0.016 |
| C | 0.089 | 0.12 | 0.177 | 0.003 | 0.005 | 0.007 |
| D | 1.6 | 1.7 | 1.8 | 0.062 | 0.066 | 0.07 |
| E | 1.15 | 1.25 | 1.35 | 0.045 | 0.049 | 0.053 |
| L | 0.08 | | | 0.003 | | |
| H_E | 2.3 | 2.5 | 2.7 | 0.09 | 0.098 | 0.105 |

8. SOLDERING FOOTPRINT



单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)