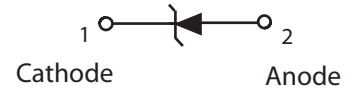
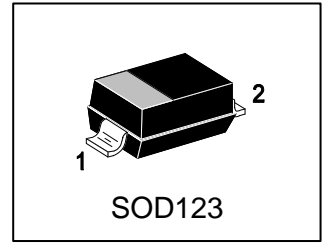


LBZT52C36T1G

SURFACE MOUNT ZENER DIODE



1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- Ideal for surface mounted application

2. DEVICE MARKING AND ORDERING INFORMATION

| Device | Marking | Shipping |
|--------------|---------|----------------|
| LBZT52C36T1G | WS | 3000/Tape&Reel |

3. THERMAL CHARACTERISTICS

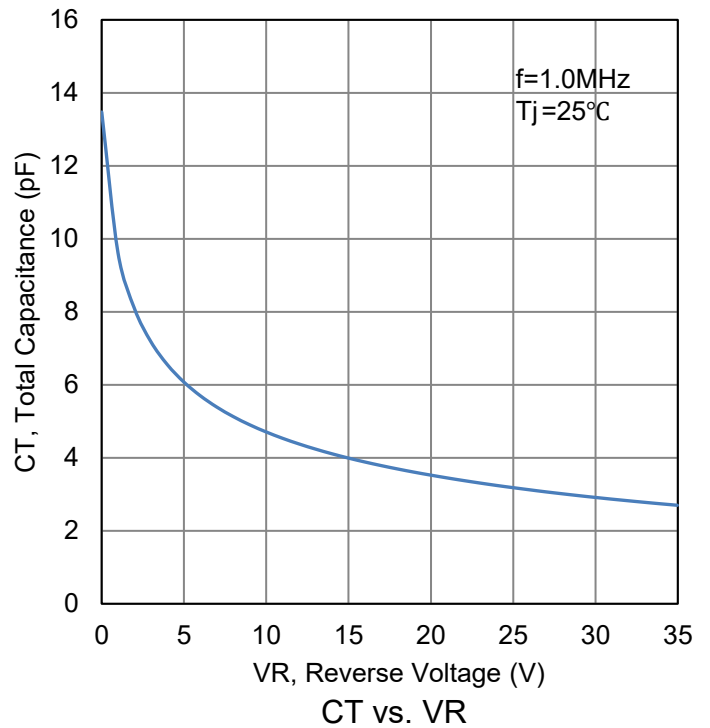
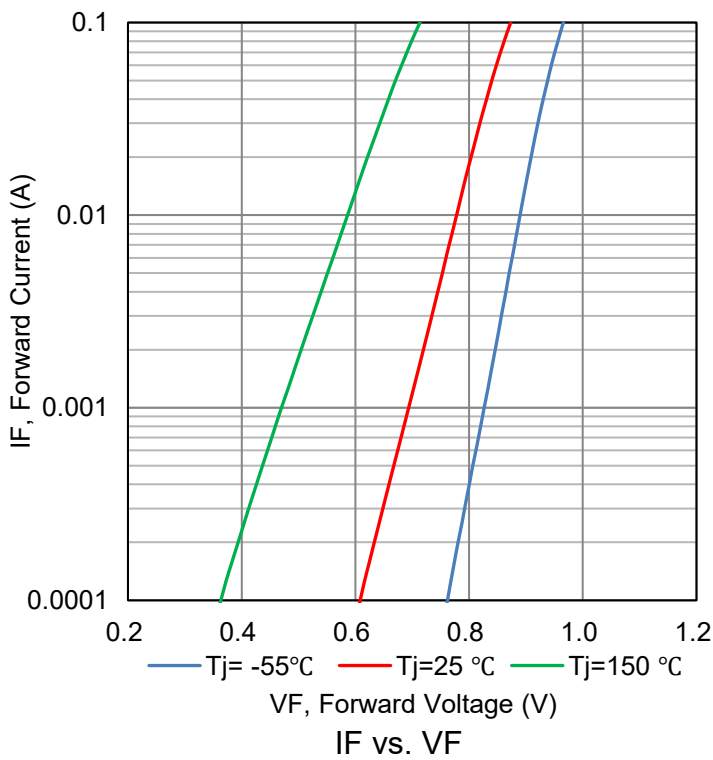
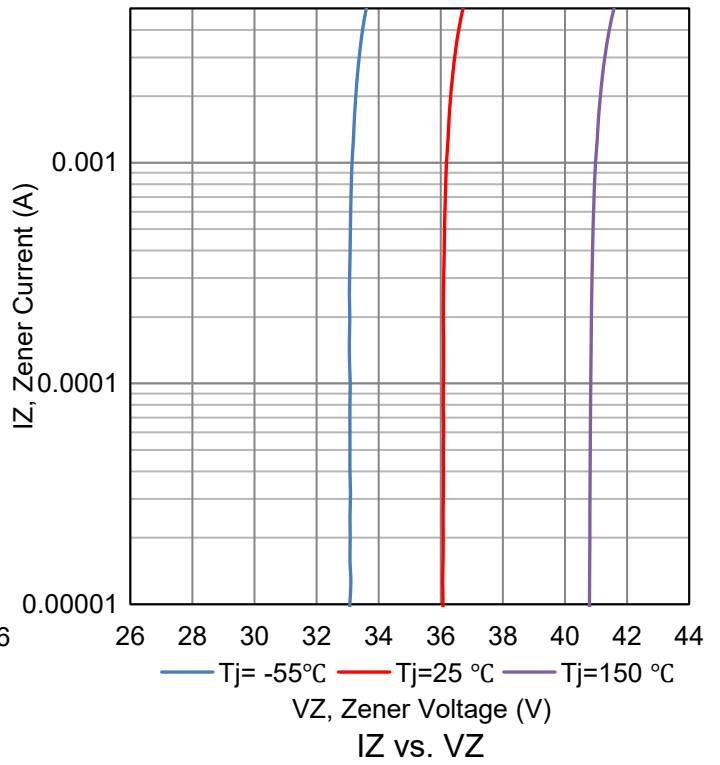
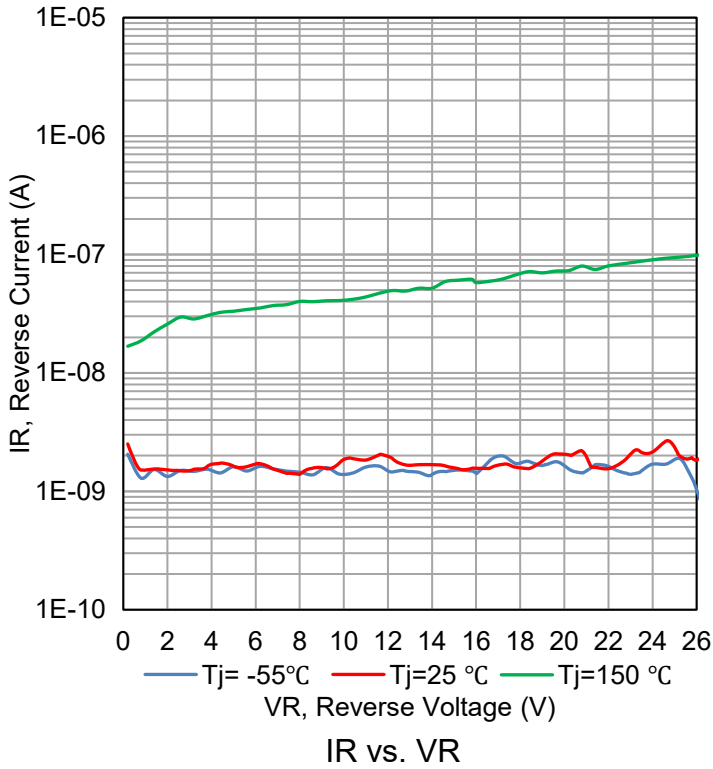
| Parameter | Symbol | Limits | Unit |
|---|---------------|----------|----------------|
| Total Power Dissipation on FR-4 Board(Note 1) | PD | 300 | mW |
| Thermal Resistance, Junction to Ambient(Note 1) | R θ JA | 440 | $^{\circ}$ C/W |
| Junction to Case | R θ JC | 200 | $^{\circ}$ C/W |
| Operating Temperature Range | Top | -55~+125 | $^{\circ}$ C |
| Junction and Storage temperature | TJ,Tstg | -55~+150 | $^{\circ}$ C |

1. Device mounted on an FR-4 PCB, single-sided copper, tin-plated and standard footprint.

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

| Characteristic | Symbol | Min. | Typ. | Max. | Unit |
|--|--------|------|------|------|------|
| Forward Voltage (IF=10 mA) | VF | - | - | 0.9 | V |
| Zener Voltage (IZT=2mA) | VZ | 34 | 36 | 38 | V |
| Operating Resistance (IZT=2mA) | ZZT | - | - | 90 | Ω |
| Rising Operating Resistance (IZK=0.5mA) | ZZK | - | - | 350 | Ω |
| Reverse Leakage Current (VR=25.2V) | IR | - | - | 0.1 | μA |

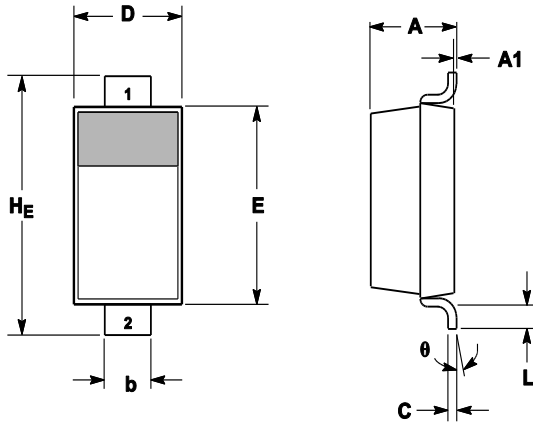
5.ELECTRICAL CHARACTERISTICS CURVES



6. OUTLINE AND DIMENSIONS

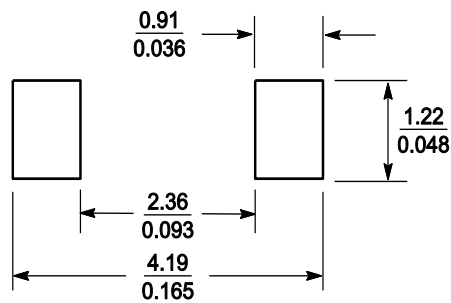
Notes:

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 | 0.94 | 1.17 | 1.35 | 0.037 | 0.046 | 0.053 |
| A1 | 0.00 | 0.05 | 0.10 | 0.000 | 0.002 | 0.004 |
| b | 0.51 | 0.61 | 0.71 | 0.020 | 0.024 | 0.028 |
| c | --- | --- | 0.15 | --- | --- | 0.006 |
| D | 1.40 | 1.60 | 1.80 | 0.055 | 0.063 | 0.071 |
| E | 2.54 | 2.69 | 2.84 | 0.100 | 0.106 | 0.112 |
| H _E | 3.56 | 3.68 | 3.86 | 0.140 | 0.145 | 0.152 |
| L | 0.25 | --- | --- | 0.010 | --- | --- |
| θ | 0° | --- | 10° | 0° | --- | 10° |

7. SOLDERING FOOTPRINT



SCALE 10:1 ($\frac{\text{mm}}{\text{inches}}$)

DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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