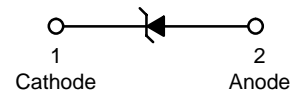
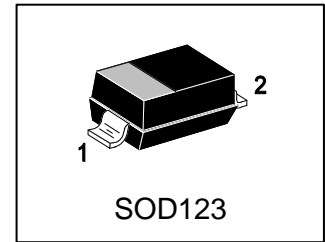


LMSZ5229BT1G

S-LMSZ5229BT1G

Zener Voltage Regulators
500 mW SOD-123 Surface Mount



MARKING DIAGRAM



D4 = Device Code
M = Date Code

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.
- 500 mW Rating on FR-4 or FR-5 Board
- Package designed for optimal automated board assembly
- Small package size for high density applications
- General purpose, medium current
- ESD rating of Class 3 per Human Body Model

2. DEVICE MARKING AND ORDERING INFORMATION

| Device | Marking | Shipping |
|--------------|---------|-----------------|
| LMSZ5229BT1G | D4 | 3000/Tape&Reel |
| LMSZ5229BT3G | D4 | 10000/Tape&Reel |

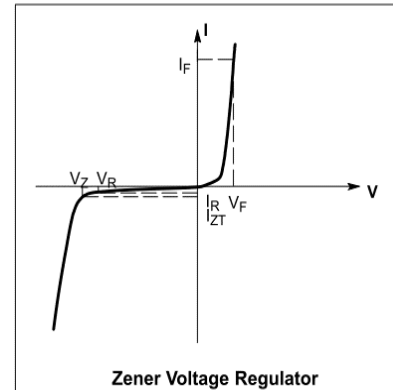
3. THERMAL CHARACTERISTICS

| Parameter | Symbol | Limits | Unit |
|---|-----------------------------------|------------|-------------|
| Total Device Dissipation, FR-5 Board (Note 1) @ TL = 75°C Derate above 75°C | PD | 500 6.7 | mW mW/°C |
| Thermal Resistance, Junction-to-Ambient(Note 2) | R θ JA | 340 | °C/W |
| Thermal Resistance, Junction-to-Lead(Note 2) | R θ JL | 150 | °C/W |
| Junction and Storage temperature | T _J , T _{stg} | -55 ~ +150 | °C |

1. FR-5 = 3.5 X 1.5 inches, using the minimum recommended footprint.
2. Thermal Resistance measurement obtained via infrared Scan Method.

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C) (VF ≤ 0.9 V @ IF = 10 mA)

| 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 |

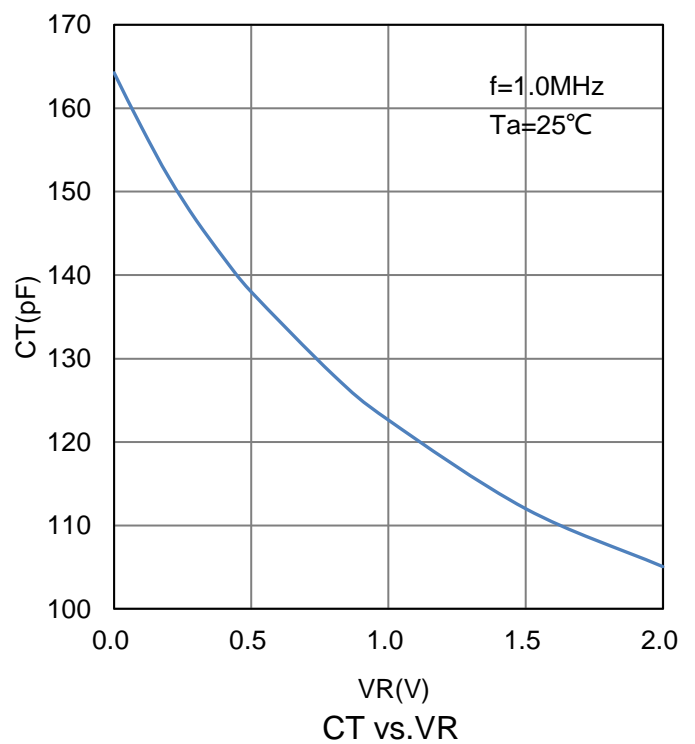
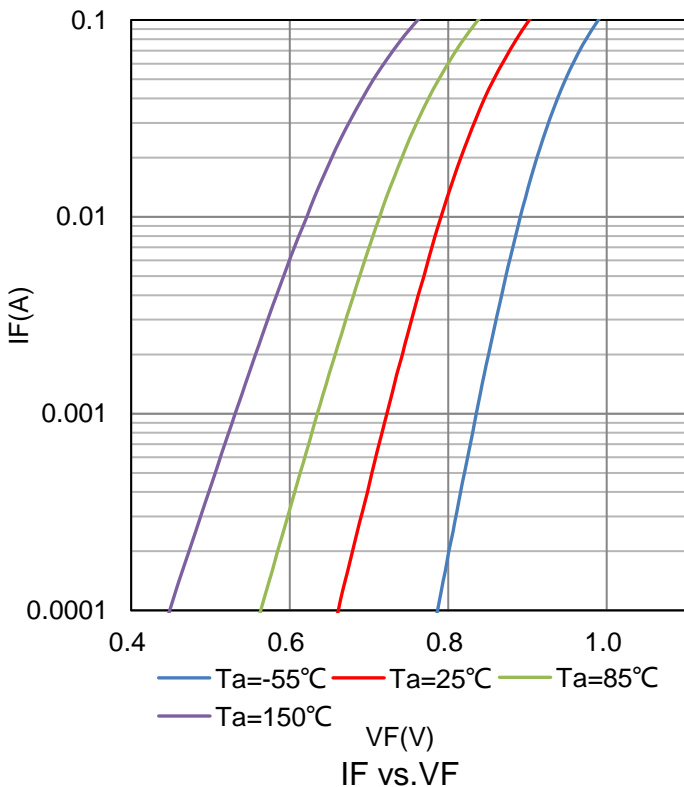
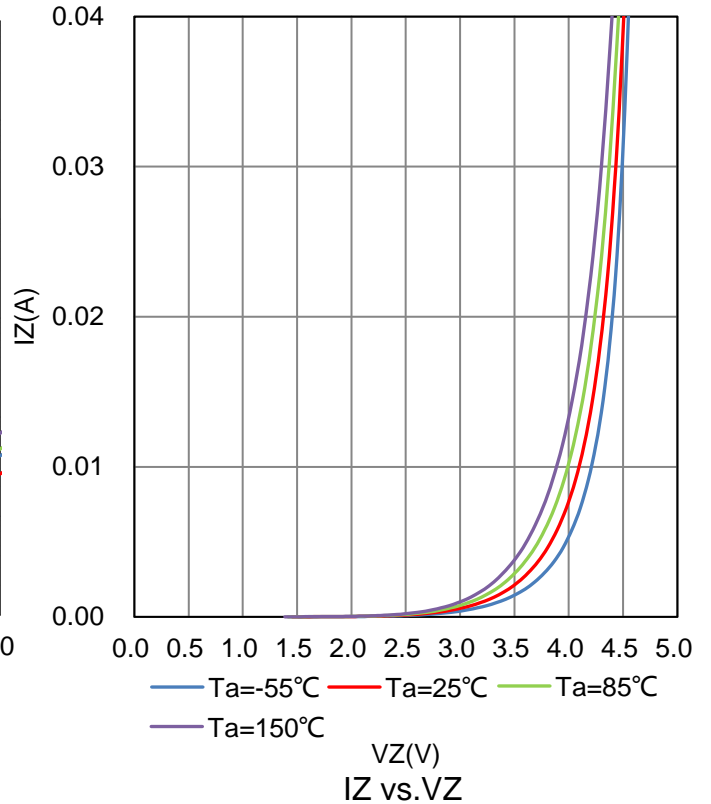
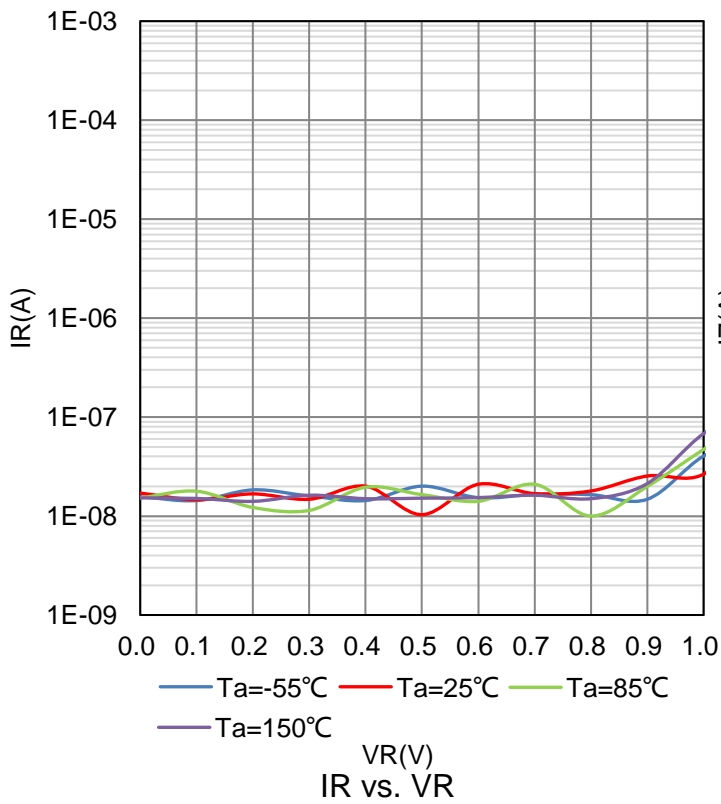


5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

| Characteristic | Symbol | Min. | Typ. | Max. | Unit |
|---|--------|------|------|------|------|
| Zener voltage(Note 3 and 4) (IZT=20mA) | VZ | 4.09 | 4.3 | 4.52 | V |
| Zener Impedance(Note 5) (IZT=20mA) | ZZT | - | - | 22 | Ω |
| Rising operating resistance(Note 5) (IZK=0.25mA) | ZZK | - | - | 2000 | Ω |
| Reverse current (VR=1V) | IR | - | - | 5 | μA |

3. The type numbers shown have a standard tolerance of ±5% on the nominal Zener voltage.
4. Nominal Zener voltage is measured with the device junction in thermal equilibrium at TL = 30°C±1°C.
5. ZZT and ZZK are measured by dividing the AC voltage drop across the device by the ac current applied. The specified limits are for IZ(AC) = 0.1 IZ(dc) with the AC frequency = 1 KHz.

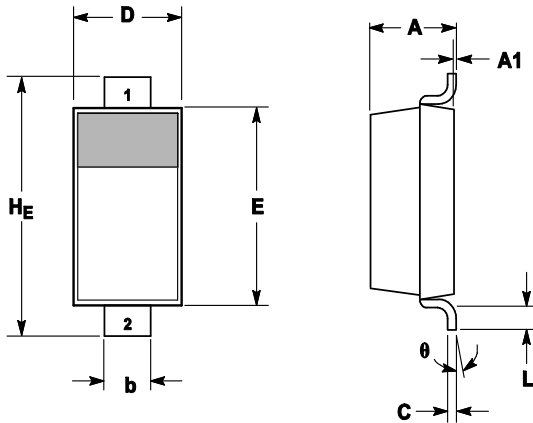
6. ELECTRICAL CHARACTERISTICS CURVES



7. OUTLINE AND DIMENSIONS

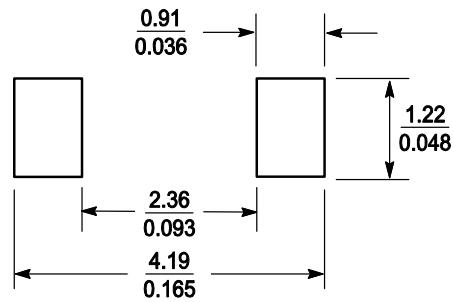
Notes:

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 | 0.94 | 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° |

8. SOLDERING FOOTPRINT



SCALE 10:1 (mm / 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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