

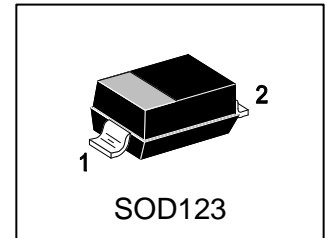
L1N4148WT1G

S-L1N4148WT1G

SURFACE MOUNT SWITCHING DIODE

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.
- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications
- High conductance



2. DEVICE MARKING AND ORDERING INFORMATION

| Device | Marking | Shipping |
|-------------|---------|-----------------|
| L1N4148WT1G | T4 | 3000/Tape&Reel |
| L1N4148WT3G | T4 | 10000/Tape&Reel |

3. MAXIMUM RATINGS(Ta = 25°C)

| Parameter | Symbol | Limits | Unit |
|-------------------------------------------|---------|--------|------|
| Non-Repetitive Peak Reverse Voltage | VRM | 100 | V |
| Peak Repetitive Reverse Voltage | VRRM | 75 | V |
| Working Peak Reverse Voltage | VRWM | | |
| DC Reverse Voltage | VR | | |
| RMS Reverse Voltage | VR(RMS) | 53 | V |
| Repetitive Peak Forward Current | IFM | 500 | mA |
| Average Rectified Output Current | IO | 200 | mA |
| Non-Repetitive Peak Forward Surge Current | IFSM | | A |
| t=1μs | | 2 | |
| t=1s | | 1 | |

4. THERMAL CHARACTERISTICS

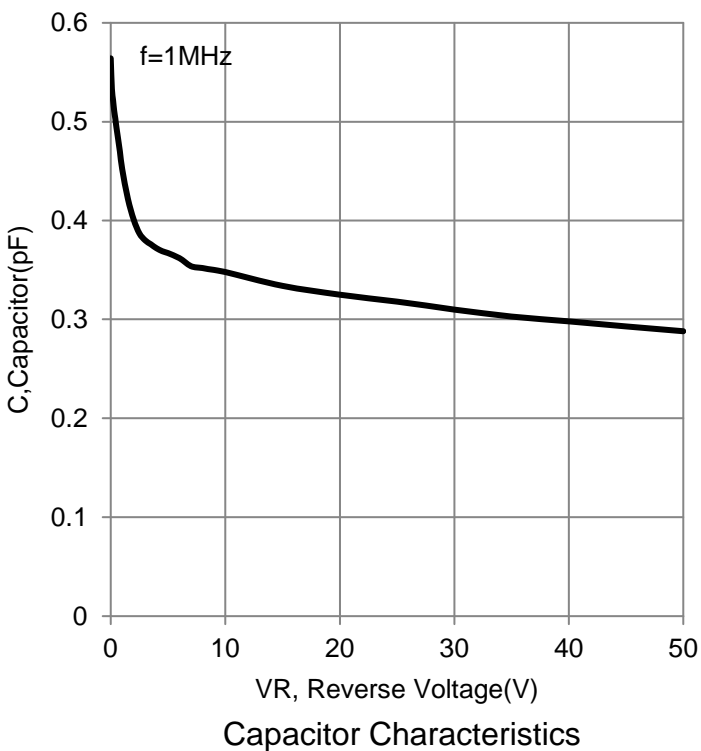
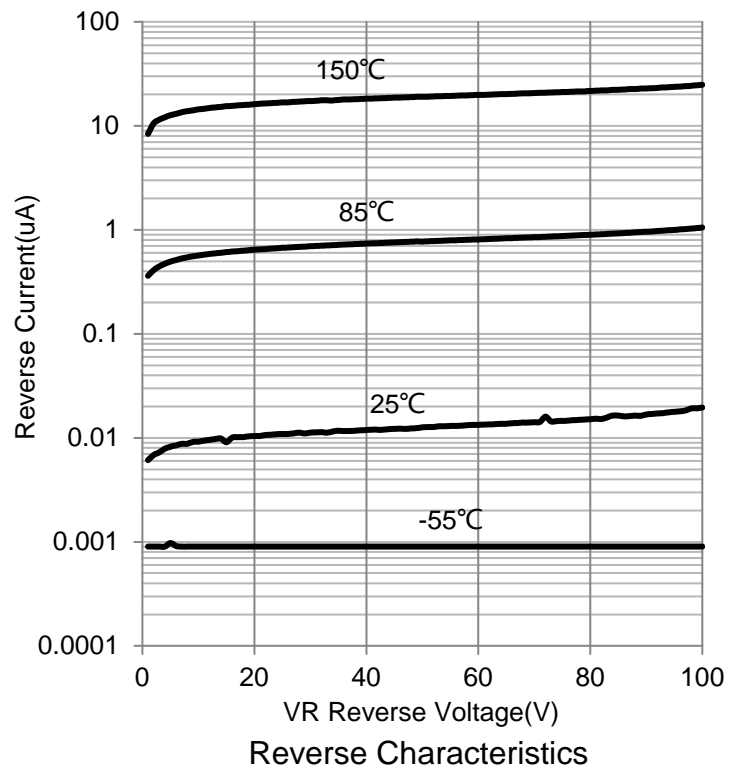
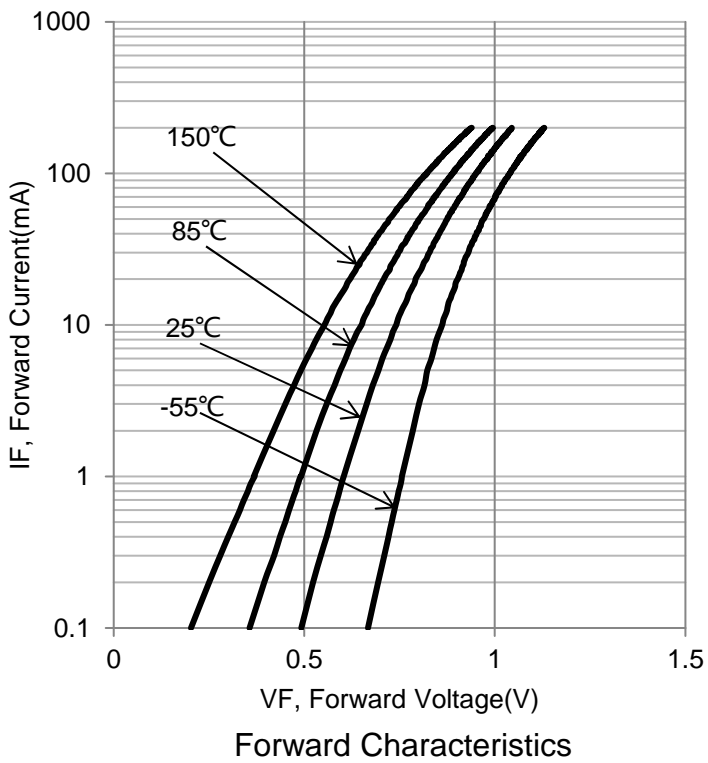
| Parameter | Symbol | Limits | Unit |
|----------------------------------|---------|----------|------|
| Power Dissipation (Note 1) | PD | 425 | mW |
| Thermal Resistance | RθJA | 290 | °C/W |
| | RθJC | 200 | °C/W |
| Junction and Storage temperature | TJ,Tstg | -65~+150 | °C |

1. Valid provided that terminals are kept at ambient temperature.

5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

| Characteristic | Symbol | Min. | Typ. | Max. | Unit |
|-------------------------------------------------------------------------------------------------------------------------|--------|------------------|------------------|----------------------------|------|
| Reverse Breakdown Voltage (I(BR)=100μA) | VBR | 75 | - | - | V |
| Forward Voltage (IF = 1.0 mAdc) (IF = 10 mAdc) (IF = 50 mAdc) (IF = 150 mAdc) | VF | - - - - | - - - - | 715 855 1000 1250 | mV |
| Reverse Voltage Leakage Current (VR = 75Vdc) (VR = 75Vdc, TJ = 150°C) (VR = 25Vdc, TJ = 150°C) (VR = 20Vdc) | IR | - - - - | - - - - | 2.5 50 30 0.025 | μA |
| Diode Capacitance (VR = 0V, f = 1.0 MHz) | CD | - | - | 2.0 | pF |
| Reverse Recovery Time (IF=IR=10mA, Irr=0.1×IR, RL =100Ω) | trr | - | - | 4.0 | ns |

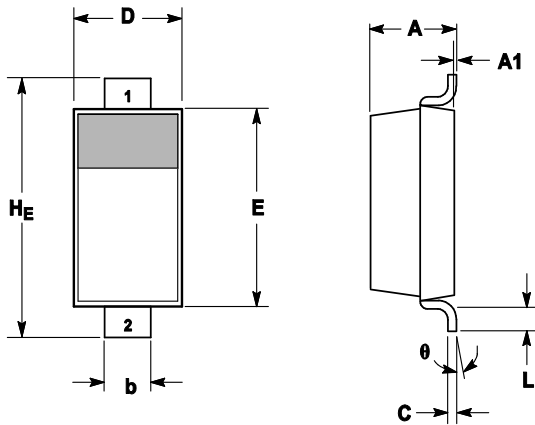
6. ELECTRICAL CHARACTERISTICS CURVES



7. OUTLINE AND DIMENSIONS

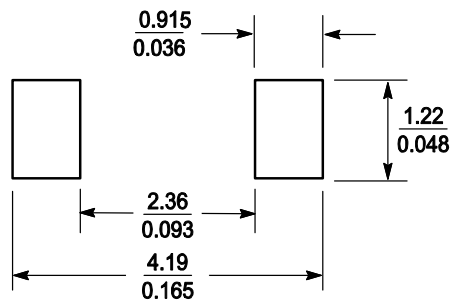
Notes:

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 ($\frac{\text{mm}}{\text{inches}}$)

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