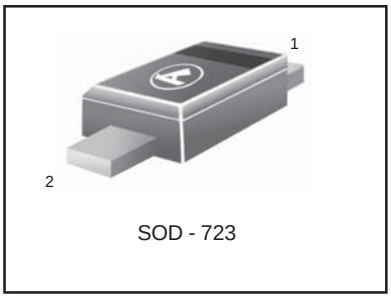
# L1SS400GT1G
# S-L1SS400GT1G

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.
- Extremely small surface mounting type.
- High Speed.
- High reliability.

## 2. Applications

- High speed switching

## 3. DEVICE MARKING AND RESISTOR VALUES

| Device | Marking | Shipping |
|---|---|---|
| L1SS400GT1G | 3 | 4000/Tape&Reel |
| L1SS400GT5G | 3 | 8000/Tape&Reel |

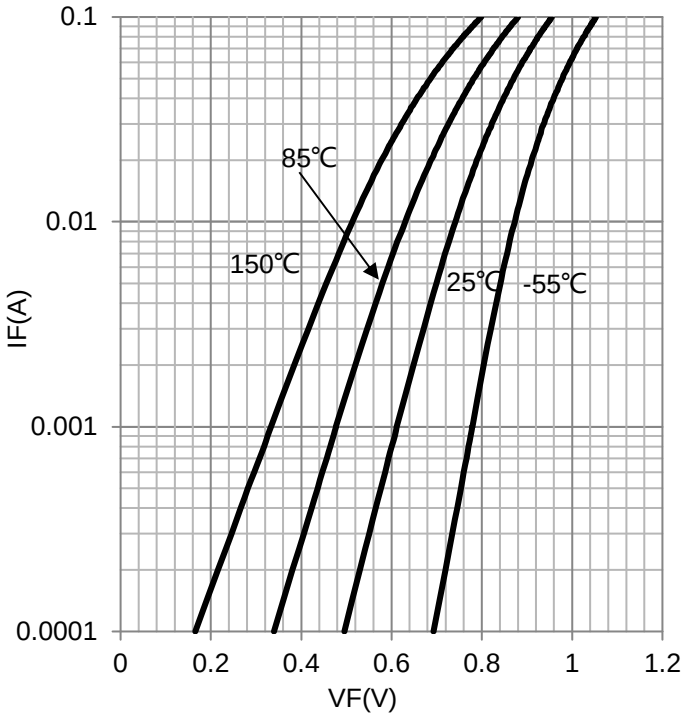
## 4. MAXIMUM RATINGS(Ta = 25ºC)

| Parameter | Symbol | Limits | Unit |
|---|---|---|---|
| Peak reverse voltage | VRM | 90 | V |
| DC reverse voltage | VR | 80 | V |
| Peak forward current | IFM | 225 | mA |
| Mean rectifying current | IO | 100 | mA |
| Surge current (1s) | Isurge | 500 | mA |
| Junction temperature | Tj | 125 | ℃ |
| Storage temperature | Tstg | -55~+125 | ℃ |

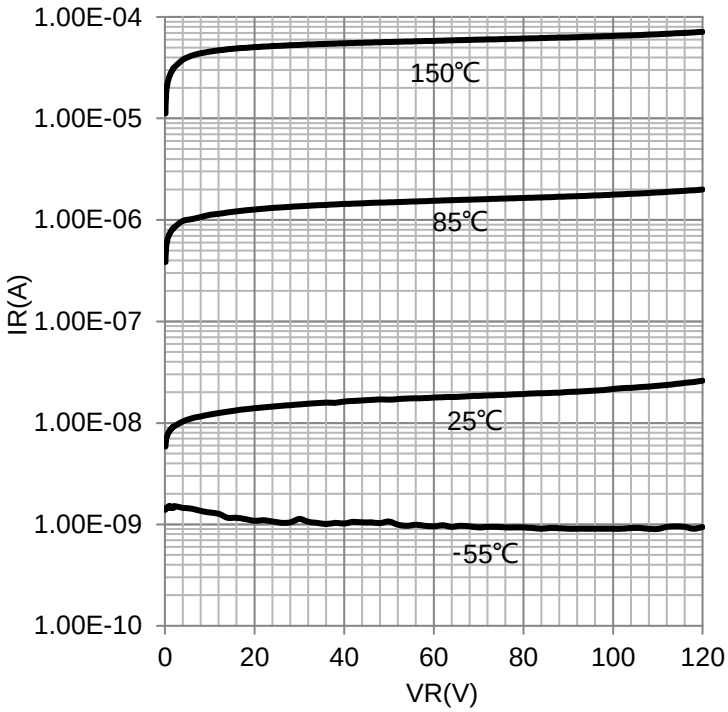
## 5. ELECTRICAL CHARACTERISTICS (Ta= 25ºC)

| CHARACTERISTICS | Symbol | Min | Typ | Max | Unit |
|---|---|---|---|---|---|
| Forward voltage (IF=100mA) | VF | - | - | 1.2 | V |
| Reverse current (VR=80V) | IR | - | - | 0.1 | μA |
| Capacitance between terminals (VR=0.5V,f=1MHz) | CT | - | 0.72 | 3 | pF |
| Reverse recovery time (VR=6V,IF=10mA,RL=100Ω) | Trr | - | - | 4 | ns |

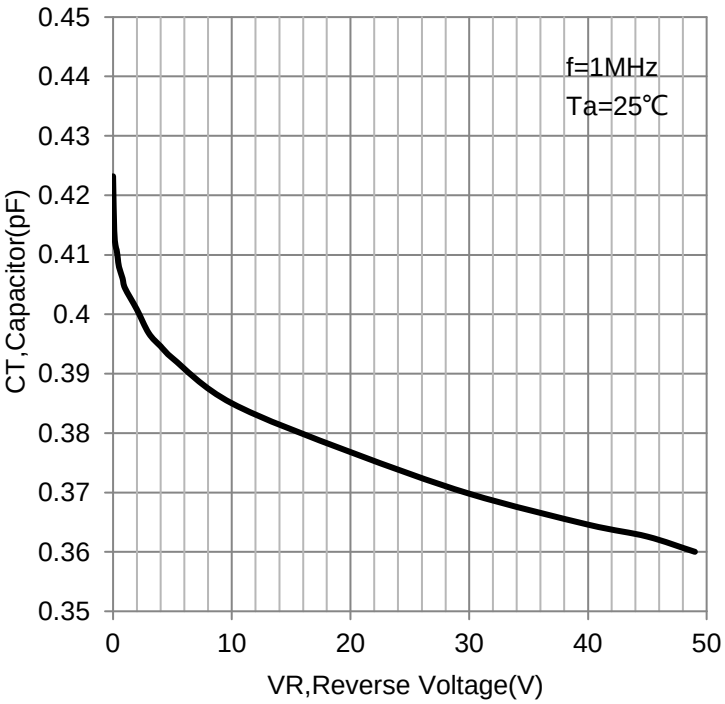
## 6.ELECTRICAL CHARACTERISTICS CURVES




IF vs. VF

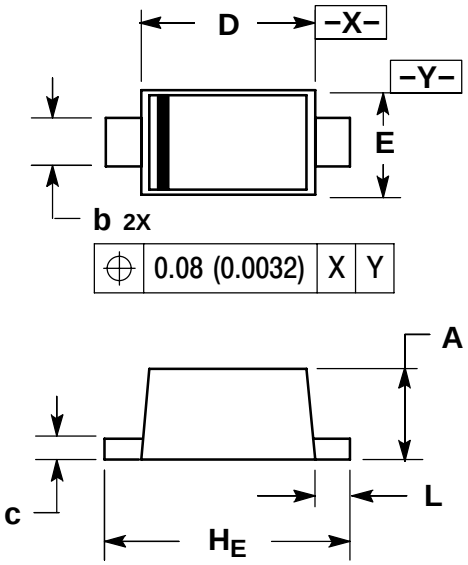



IR vs. VR




CT vs. VR

## 7.OUTLINE AND DIMENSIONS




NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.

| Dim | MILLIMETERS | | | NCHES | | |
|---|---|---|---|---|---|---|
| | MIN | NOM | MAX | MIN | NOM | MAX |
| A | 0.49 | 0.52 | 0.55 | 0.019 | 0.020 | 0.022 |
| b | 0.25 | 0.28 | 0.32 | 0.0098 | 0.011 | 0.013 |
| c | 0.08 | 0.12 | 0.15 | 0.0032 | 0.0047 | 0.0059 |
| D | 0.95 | 1.00 | 1.05 | 0.037 | 0.039 | 0.041 |
| E | 0.55 | 0.60 | 0.65 | 0.022 | 0.024 | 0.026 |
| HE | 1.35 | 1.40 | 1.45 | 0.053 | 0.055 | 0.057 |
| L | 0.15 | 0.2 | 0.25 | 0.006 | 0.0079 | 0.010 |

## 8.SOLDERING FOOTPRINT