

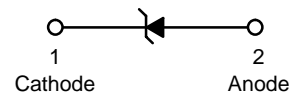
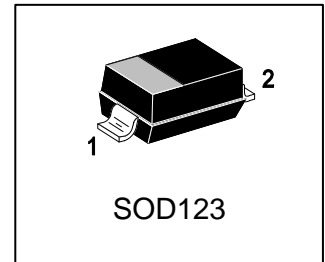
# LBAT46T1G

## S-LBAT46T1G

Schottky Power Rectifier

### 1. FEATURES

- Very small conduction losses
- Negligible switching losses
- Low forward voltage drop
- Surface mount device
- Lead and Mounting Surface Temperature for Soldering Purposes:  
260°C Max. for 10 Seconds
- 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.



### 2. DEVICE MARKING AND ORDERING INFORMATION

| Device    | Marking | Shipping       |
|-----------|---------|----------------|
| LBAT46T1G | Z46     | 3000/Tape&Reel |

### 3. MAXIMUM RATINGS(Ta = 25°C)

| Parameter                                      | Symbol | Limits   | Unit |
|--|--------|----------|------|
| Repetitive peak reverse voltage                | VRRM   | 100      | V    |
| Continuous forward current                     | IF     | 150      | mA   |
| Surge Non repetitive forward current           | IFSM   | 1        | A    |
| Power Dissipation                              | PD     | 250      | mW   |
| Storage temperature range                      | Tstg   | -55~+150 | °C   |
| Maximum operating junction temperature(Note 1) | Tj     | 150      | °C   |
| Maximum soldering temperature(Note 1)          | TL     | 260      | °C   |

1. Pulse test: tp = 380 μs, δ < 2 %

### 4. THERMAL CHARACTERISTICS

| Parameter                                   | Symbol | Limits | Unit |
|---|--------|--------|------|
| Thermal resistance from junction to ambient | RθJA   | 500    | °C/W |

2. On epoxy printed circuit board with recommended pad layout

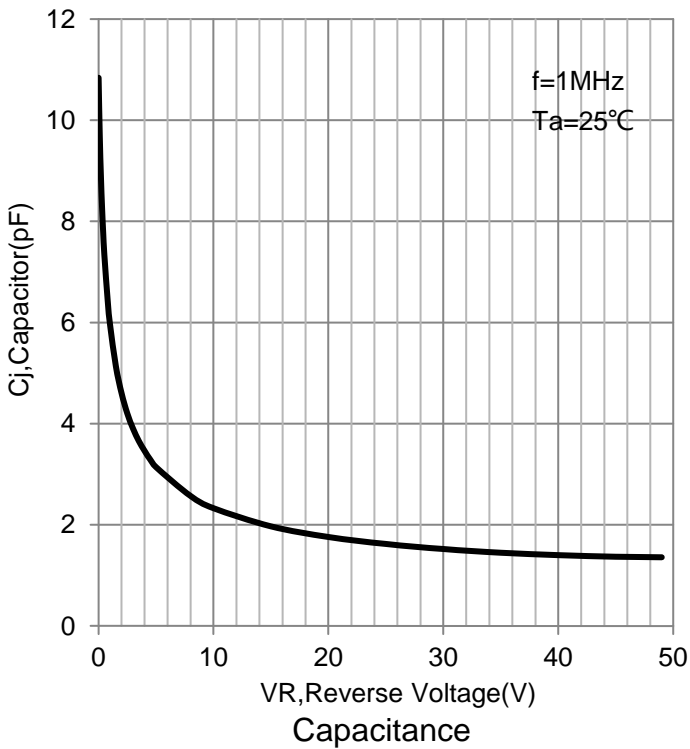
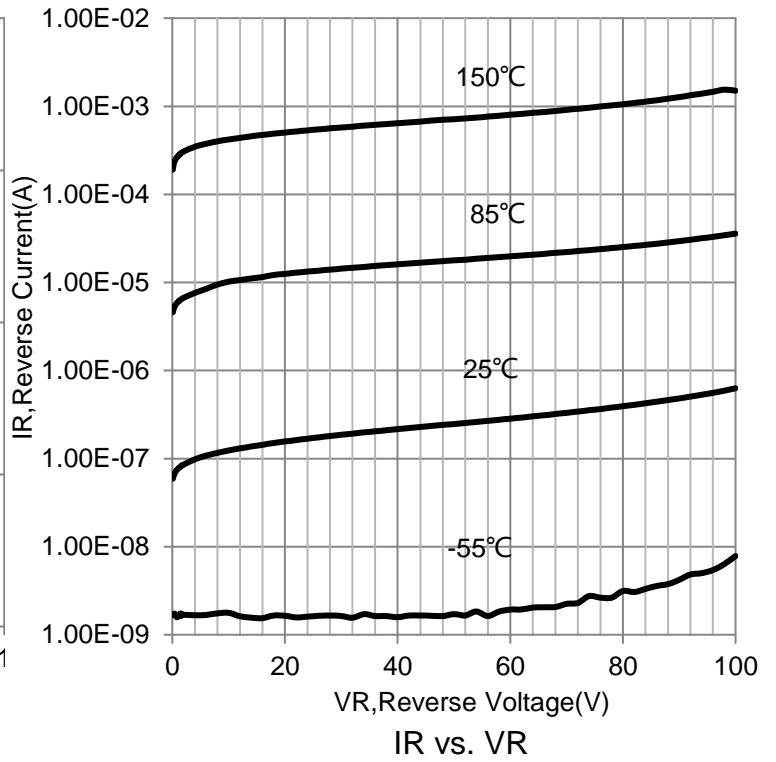
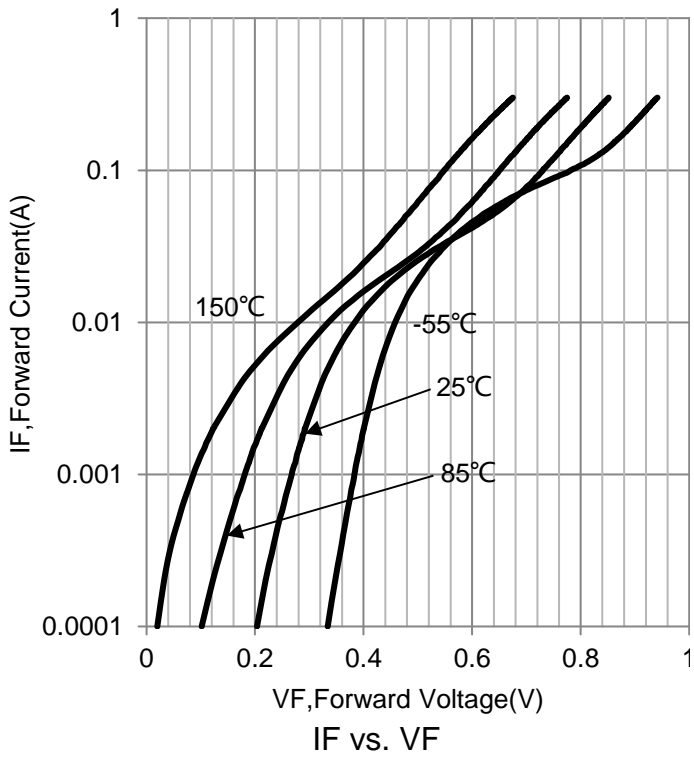
**5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)**

| Characteristic                                  | Symbol     | Min. | Typ. | Max. | Unit |
|---|------------|------|------|------|------|
| Reverse Leakage Current(Tj = 25°C)<br>(VR=1.5V) | IR(Note 3) | -    | -    | 0.5  | μA   |
| (VR=10V)  |            | -    | -    | 0.8  |      |
| (VR=50V)  |            | -    | -    | 2    |      |
| (VR=75V)  |            | -    | -    | 5    |      |
| Reverse Leakage Current(Tj = 60°C)<br>(VR=1.5V) |            | -    | -    | 5    |      |
| (VR=10V)  |            | -    | -    | 7.5  |      |
| (VR=50V)  |            | -    | -    | 15   |      |
| (VR=75V)  |            | -    | -    | 20   |      |
| Forward Voltage(Tj = 25°C)<br>(IF=0.1mA)        | VF         | -    | -    | 0.25 | V    |
| (IF=10mA)                                       |            | -    | -    | 0.45 |      |
| (IF=250mA)                                      |            | -    | -    | 1    |      |
| Diode Capacitance<br>(VR =0V, f=1.0MHz)         | Cd         | -    | 11   | -    | pF   |
| (VR =1V, f=1.0MHz)                              |            | -    | 6    | -    |      |

3. Pulse test: tp = 5 ms, δ &lt; 2 %

4. Pulse test: tp = 380 μs, δ &lt; 2 %

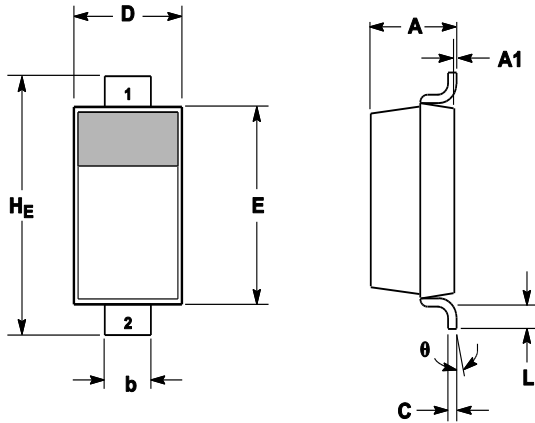
**6.ELECTRICAL CHARACTERISTICS CURVES**



### 7. OUTLINE AND DIMENSIONS

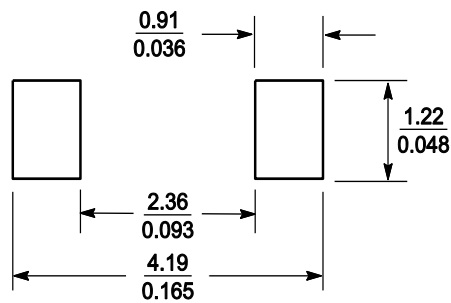
Notes:

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 |
| HE    | 3.56        | 3.68 | 3.86 | 0.140  | 0.145 | 0.152 |
| L     | 0.25        | ---  | ---  | 0.010  | ---   | ---   |
| theta | 0°          | ---  | 10°  | 0°     | ---   | 10°   |

### 8. SOLDERING FOOTPRINT



SCALE 10:1 (mm / inches)

单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)