

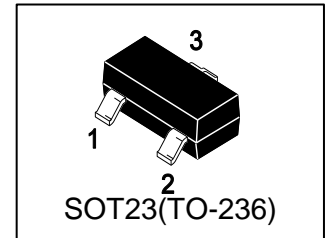
# LMBD914LT1G

## S-LMBD914LT1G

### HIGH-SPEED SWITCHING DIODE

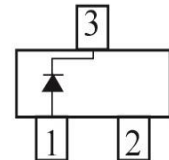
#### 1. FEATURES

- 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.



#### 2. DEVICE MARKING AND ORDERING INFORMATION

| Device      | Marking | Shipping        |
|-------------|---------|-----------------|
| LMBD914LT1G | 5D      | 3000/Tape&Reel  |
| LMBD914LT3G | 5D      | 10000/Tape&Reel |



#### 3. MAXIMUM RATINGS(Ta = 25°C)

| Parameter                  | Symbol     | Limits | Unit |
|----------------------------|------------|--------|------|
| Reverse Voltage            | VR         | 100    | V    |
| Forward Current            | IF         | 200    | mA   |
| Peak Forward Surge Current | IFM(surge) | 500    | mA   |

#### 4. THERMAL CHARACTERISTICS

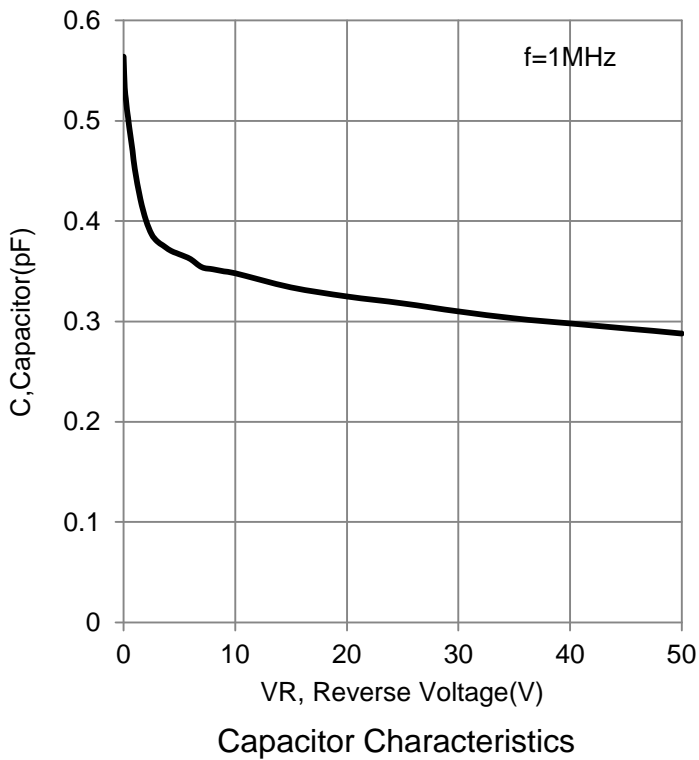
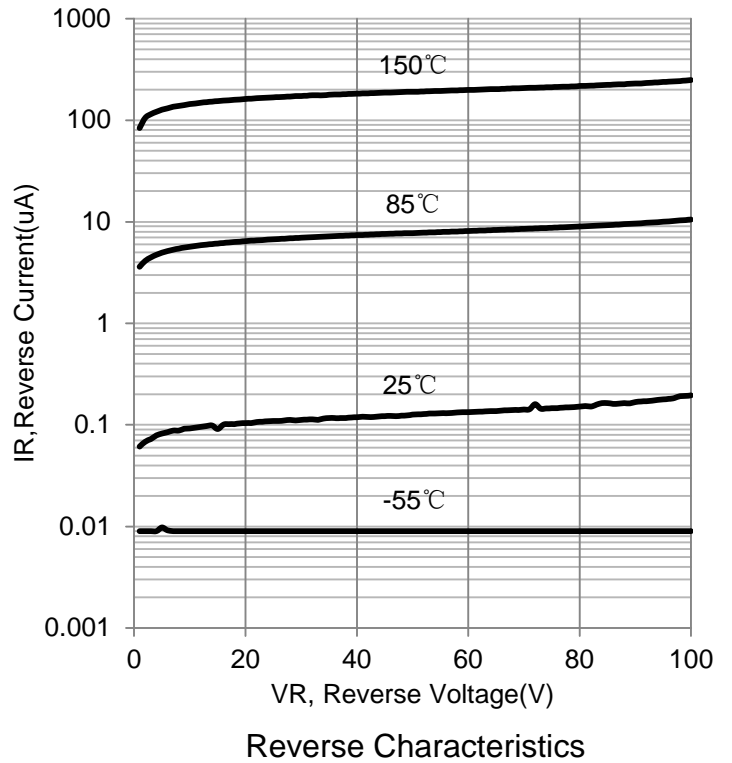
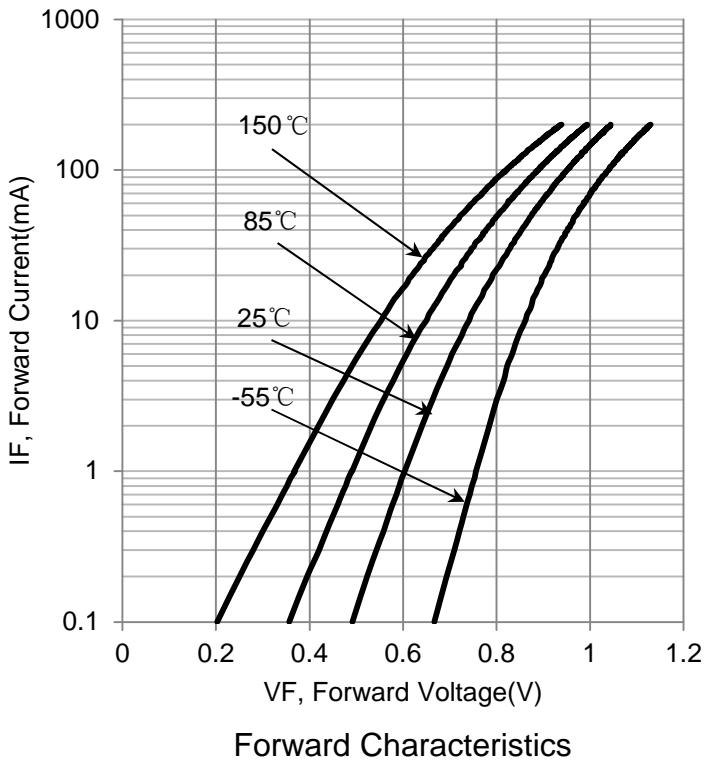
| Parameter   | Symbol  | Limits     | Unit        |
|---|---------|------------|-------------|
| Total Device Dissipation,<br>FR-5 Board (Note 1) @ TA = 25°C<br>Derate above 25°C | PD      | 225<br>1.8 | mW<br>mW/°C |
| Thermal Resistance,<br>Junction-to-Ambient(Note 1)                                | RθJA    | 556        | °C/W        |
| Junction and Storage temperature  | TJ,Tstg | -55~+150   | °C          |

1. FR-5 = 1.0×0.75×0.062 in.

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

| Characteristic                              | Symbol | Min. | Typ. | Max. | Unit |
|---|--------|------|------|------|------|
| Reverse Breakdown Voltage<br>(I(BR)=100μA)  | VBR    | 100  | -    | -    | V    |
| Forward Voltage<br>(IF = 10 mAdc)           | VF     | -    | -    | 1.0  | V    |
| Reverse Current<br>(VR = 75Vdc)             | IR     | -    | -    | 5.0  | μA   |
| (VR = 20Vdc)                                |        | -    | -    | 25   | nA   |
| Diode Capacitance<br>(VR = 0V, f = 1.0 MHz) | CD     | -    | -    | 4.0  | pF   |
| Reverse Recovery Time<br>(IF=IR=10mAdc)     | trr    | -    | -    | 4.0  | ns   |

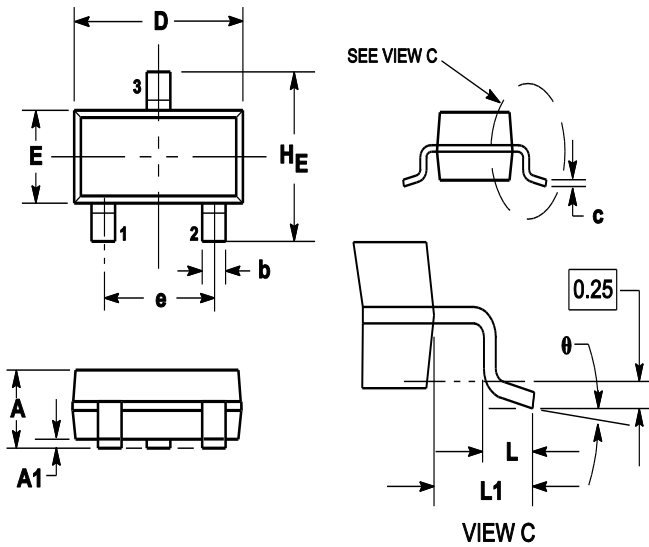
### 6. ELECTRICAL CHARACTERISTICS CURVES



### 7. OUTLINE AND DIMENSIONS

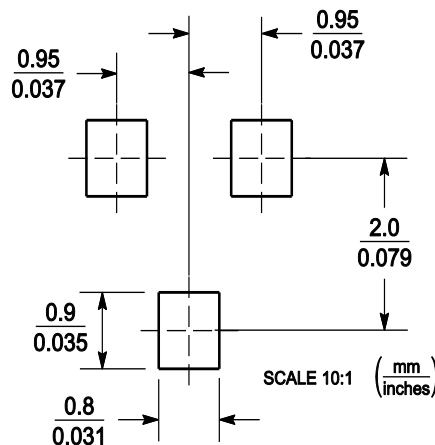
Notes:

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        | 0.89        | 1    | 1.11 | 0.035  | 0.04  | 0.044 |
| A1       | 0.01        | 0.06 | 0.1  | 0.001  | 0.002 | 0.004 |
| b        | 0.37        | 0.44 | 0.5  | 0.015  | 0.018 | 0.02  |
| c        | 0.09        | 0.13 | 0.18 | 0.003  | 0.005 | 0.007 |
| D        | 2.80        | 2.9  | 3.04 | 0.11   | 0.114 | 0.12  |
| E        | 1.20        | 1.3  | 1.4  | 0.047  | 0.051 | 0.055 |
| e        | 1.78        | 1.9  | 2.04 | 0.07   | 0.075 | 0.081 |
| L        | 0.10        | 0.2  | 0.3  | 0.004  | 0.008 | 0.012 |
| L1       | 0.35        | 0.54 | 0.69 | 0.014  | 0.021 | 0.029 |
| HE       | 2.10        | 2.4  | 2.64 | 0.083  | 0.094 | 0.104 |
| $\theta$ | 0°          | ---  | 10°  | 0°     | ---   | 10°   |

### 8. SOLDERING FOOTPRINT



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