

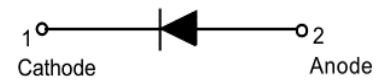
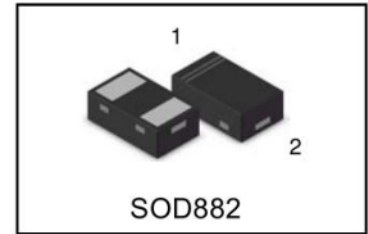
# LRB521BS-40T5G

## S-LRB521BS-40T5G

Schottky barrier diode

### 1. FEATURES

- Extremely small surface mounting type. (SOD882)
- Low VF
- High reliability.
- We declare that the material of product compliance with RoHS requirements.
- S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.



### 2. APPLICATIONS

- Low current rectification

### 3. DEVICE MARKING AND ORDERING INFORMATION

| Device         | Marking | Shipping        |
|----------------|---------|-----------------|
| LRB521BS-40T5G | T       | 10000/Tape&Reel |

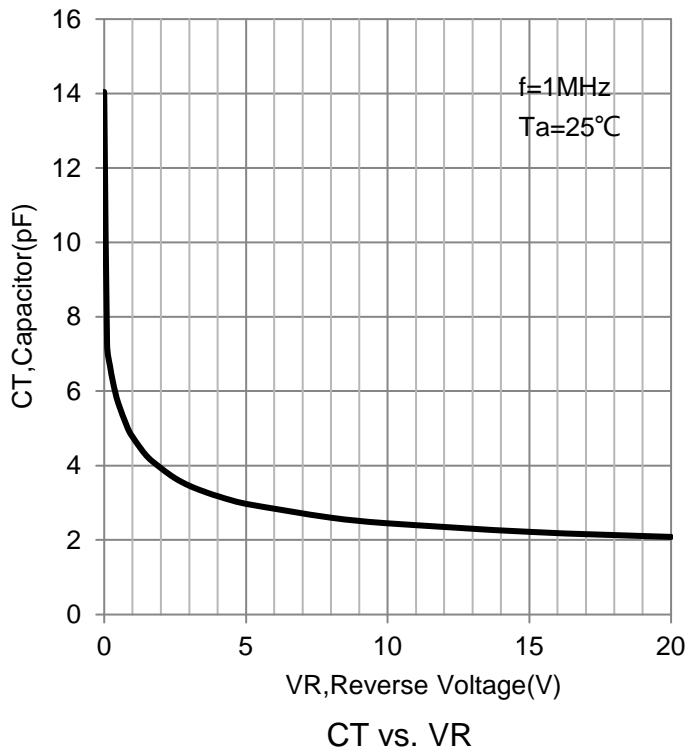
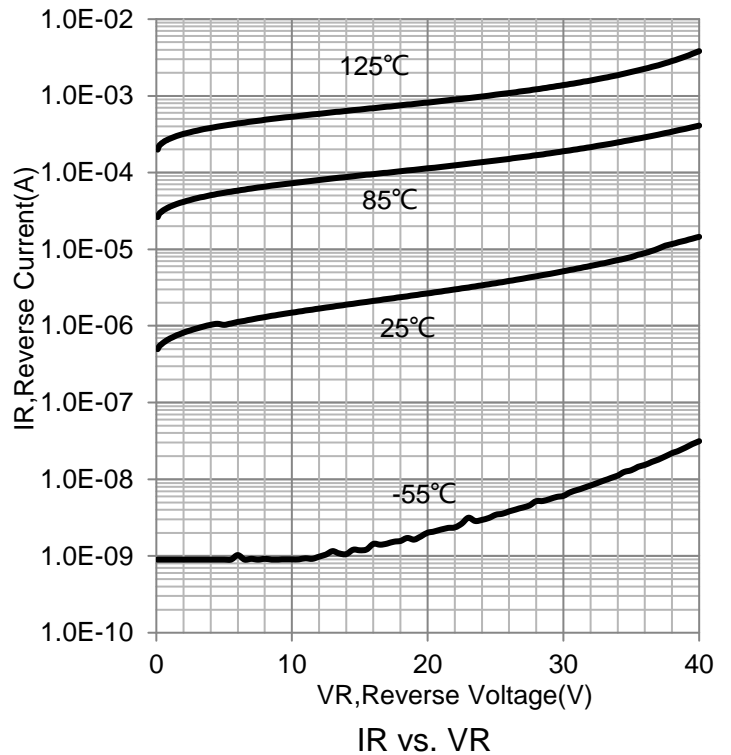
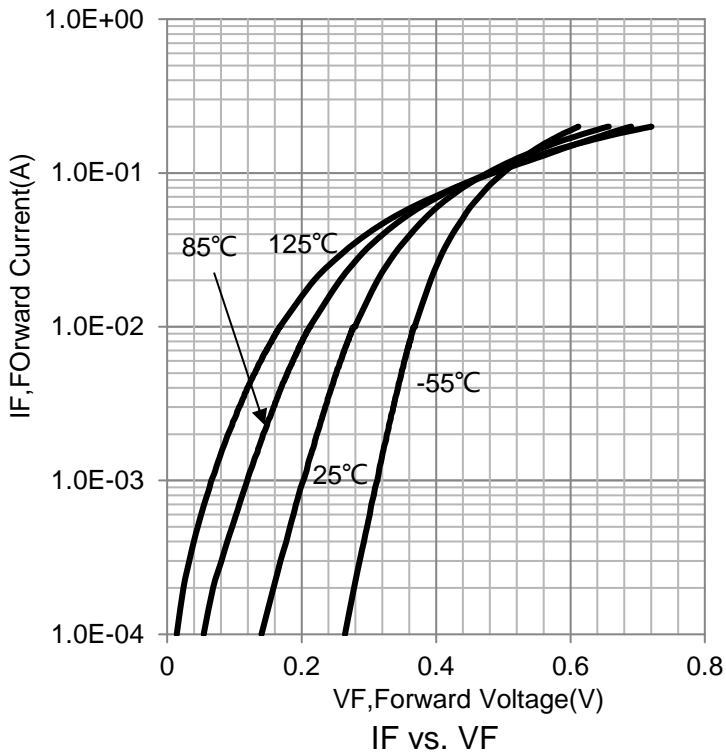
### 4. MAXIMUM RATINGS(Ta = 25°C)

| Parameter                             | Symbol | Limits   | Unit |
|---------------------------------------|--------|----------|------|
| Reverse voltage(DC)                   | VR     | 40       | V    |
| Average rectified forward current     | Io     | 200      | mA   |
| Forward current surge peak(60Hz 1cyc) | IFSM   | 500      | mA   |
| Junction temperature                  | Tj     | 125      | °C   |
| Storage Temperature Range             | TSTG   | -40~+125 | °C   |

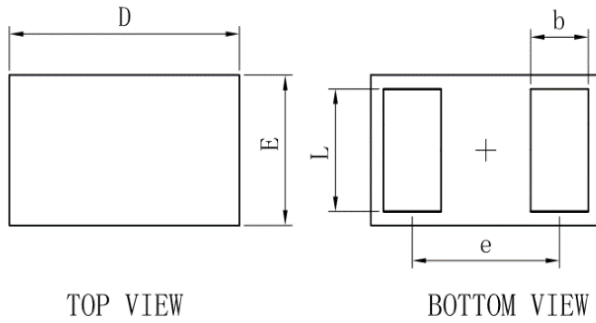
### 5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

| Parameter                     | Symbol | Min. | Typ. | Max. | Unit |
|-------------------------------|--------|------|------|------|------|
| Forward voltage<br>(IF =10mA) | VF     |      |      | 0.35 | V    |
| (IF =20mA)                    |        |      |      | 0.4  |      |
| Reverse current<br>(VR =10V)  | IR     |      |      | 10   | μA   |

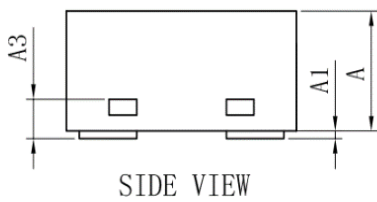
### 6. ELECTRICAL CHARACTERISTICS CURVES



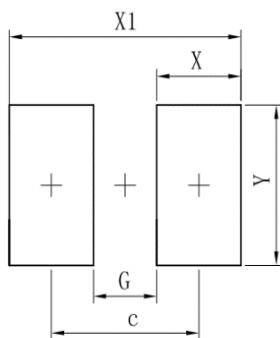
### 7. OUTLINE AND DIMENSIONS



| SOD882               |           |      |      |
|----------------------|-----------|------|------|
| Dim                  | Min       | Typ. | Max  |
| D                    | 0.95      | 1.00 | 1.05 |
| E                    | 0.55      | 0.60 | 0.65 |
| e                    | -         | 0.64 | -    |
| L                    | 0.44      | 0.49 | 0.54 |
| b                    | 0.20      | 0.25 | 0.30 |
| A                    | 0.43      | 0.48 | 0.53 |
| A1                   | 0         | -    | 0.05 |
| A3                   | 0.127REF. |      |      |
| All Dimensions in mm |           |      |      |



### 8. SOLDERING FOOTPRINT



| Dimensions | (mm) |
|------------|------|
| c          | 0.70 |
| G          | 0.30 |
| X          | 0.40 |
| X1         | 1.10 |
| Y          | 0.70 |