

# Band Switching Diode

- **Applications**

High frequency switching

- **Features**

- 1) Small surface mounting type.
- 2) High reliability.
- 3) We declare that the material of product compliance with RoHS requirements.

- **Construction**

Silicon epitaxial planar

**L1SS356T1G**


## Driver Marking

L1SS356T1G =B

## Absolute maximum ratings ( $T_A=25^{\circ}\text{C}$ )

| Parameter            | Symbol    | Limits   | Unit               |
|----------------------|-----------|----------|--------------------|
| DC reverse voltage   | $V_R$     | 35       | V                  |
| DC forward current   | $I_F$     | 100      | mA                 |
| Junction temperature | $T_j$     | 125      | $^{\circ}\text{C}$ |
| Storage temperature  | $T_{stg}$ | -55~+125 | $^{\circ}\text{C}$ |

## Electrical characteristics ( $T_A=25^{\circ}\text{C}$ )

| Parameter                     | Symbol | Min. | Typ. | Max. | Unit     | Conditions                           |
|-------------------------------|--------|------|------|------|----------|--------------------------------------|
| Forward voltage               | $V_F$  | —    | —    | 1.0  | V        | $I_F=10\text{mA}$                    |
| Reverse current               | $I_R$  | —    | —    | 10   | nA       | $V_R=25\text{V}$                     |
| Capacitance between terminals | $C_T$  | —    | —    | 1.2  | pF       | $V_R=6\text{V}$ , $f=1\text{MHz}$    |
| Forward operating resistance  | $r_F$  | —    | —    | 0.9  | $\Omega$ | $I_F=2\text{mA}$ , $f=100\text{MHz}$ |

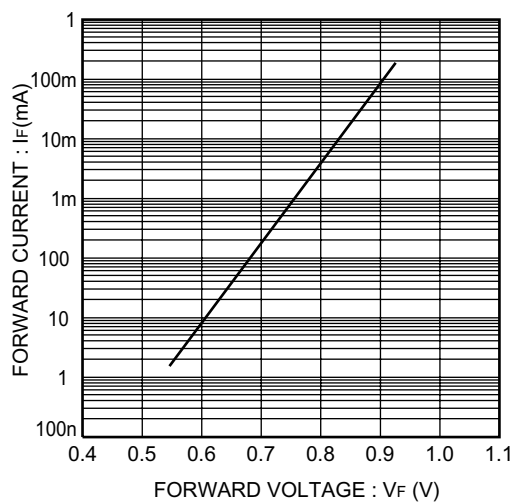
## Ordering Information

| Device     | Marking | Shipping        |
|------------|---------|-----------------|
| L1SS356T1G | B       | 3000/Tape&Reel  |
| L1SS356T3G | B       | 10000/Tape&Reel |

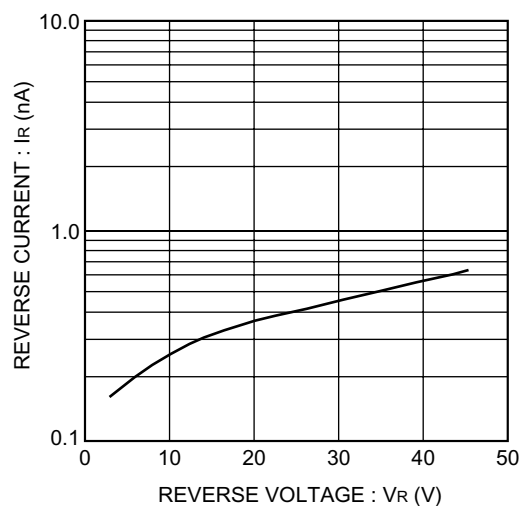
**L1SS356T1G**

## Electrical characteristic curves

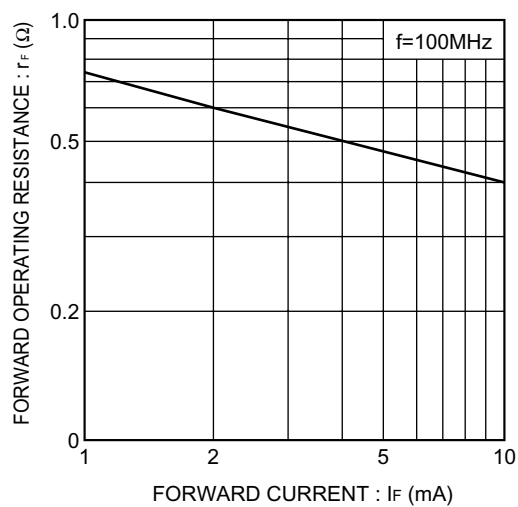
( $T_A=25^\circ\text{C}$ )



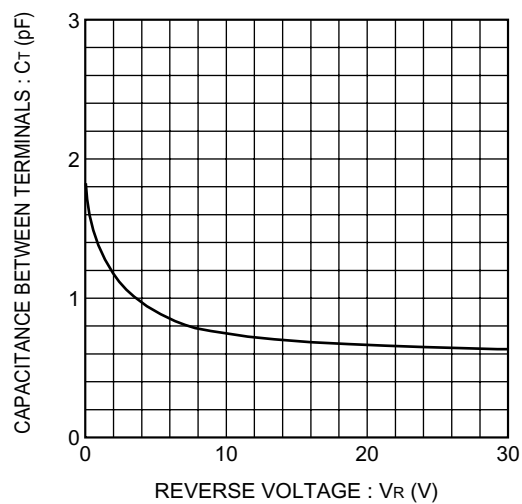
**Fig. 1 Forward characteristics**



**Fig. 2 Reverse characteristics**



**Fig. 4 Forward operating resistance characteristics**



**Fig. 3 Capacitance between terminals characteristics**

## L1SS356T1G

### PACKAGE DIMENSIONS

SOD-323

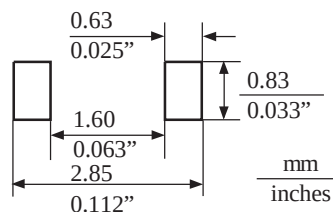
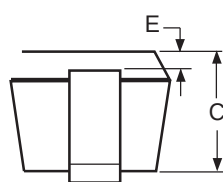
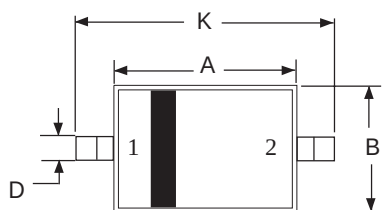
PLASTIC PACKAGE

CASE 477-02

ISSUE B



SOD-323



#### NOTES:

1. CONTROLLING DIMENSION: MILLIMETERS
2. LEAD THICKNESS SPECIFIED PER L / F DRAWING WITH SOLDER PLATING.

| DIN | MILLIMETERS |       | INCHES    |        |
|-----|-------------|-------|-----------|--------|
|     | MIN         | MAX   | MIN       | MAX    |
| A   | 1.60        | 1.80  | 0.063     | 0.071  |
| B   | 1.15        | 1.35  | 0.045     | 0.053  |
| C   | 0.80        | 1.00  | 0.031     | 0.039  |
| D   | 0.25        | 0.40  | 0.010     | 0.016  |
| E   | 0.15 REF    |       | 0.006 REF |        |
| H   | 0.00        | 0.10  | 0.0000    | 0.004  |
| J   | 0.089       | 0.177 | 0.0035    | 0.0070 |
| K   | 2.30        | 2.7   | 0.091     | 0.106  |

STYLE 1:  
PIN 1: CATHODE  
2: ANODE