

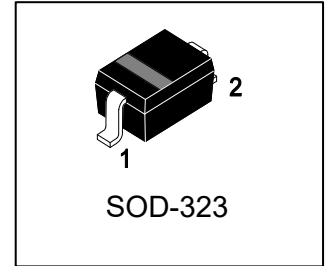
1SS356

S-1SS356

Band 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.
- Silicon epitaxial planar
- Small surface mounting type.
- High reliability.
- High frequency switching



2. DEVICE MARKING AND ORDERING INFORMATION

| Device | Marking | Shipping |
|--------|---------|----------------|
| 1SS356 | B | 3000/Tape&Reel |

3. MAXIMUM RATINGS (Ta = 25°C)

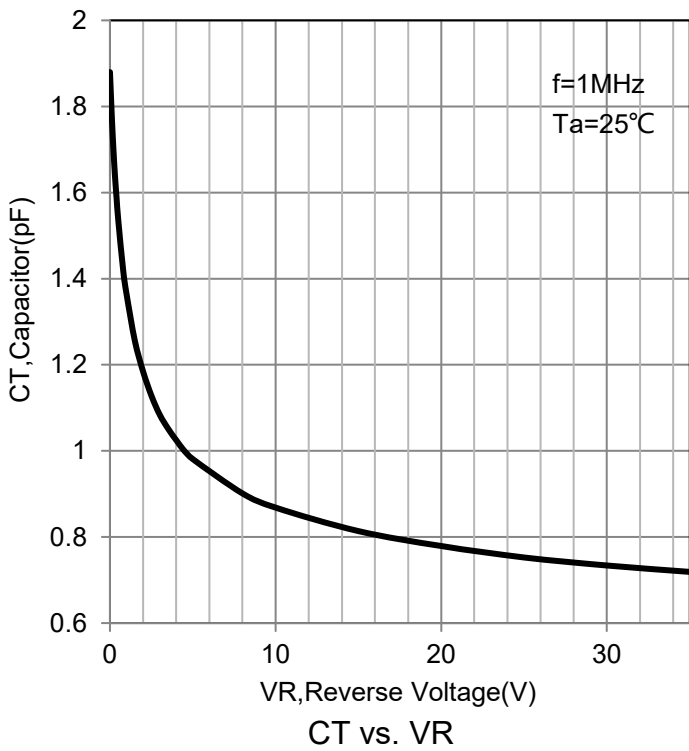
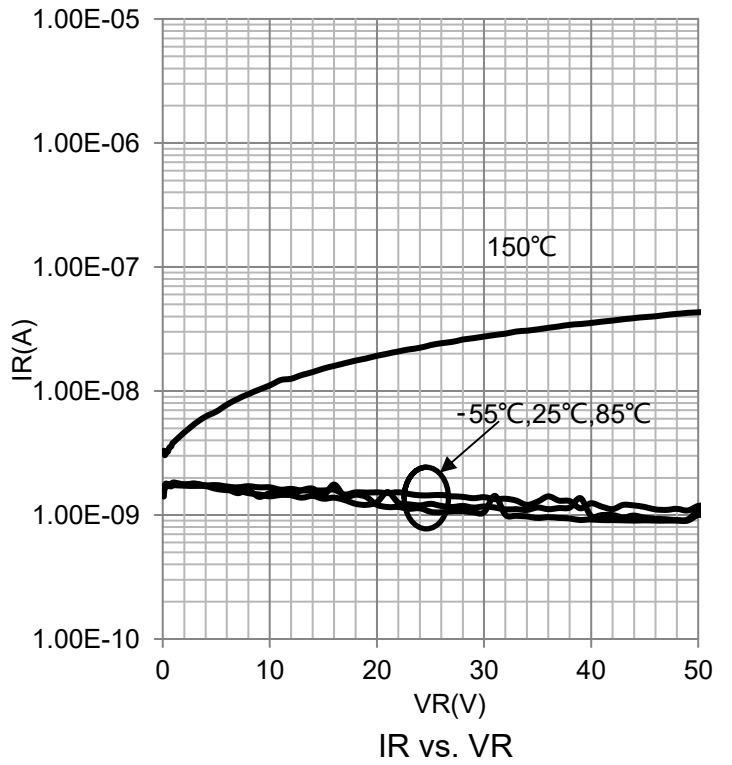
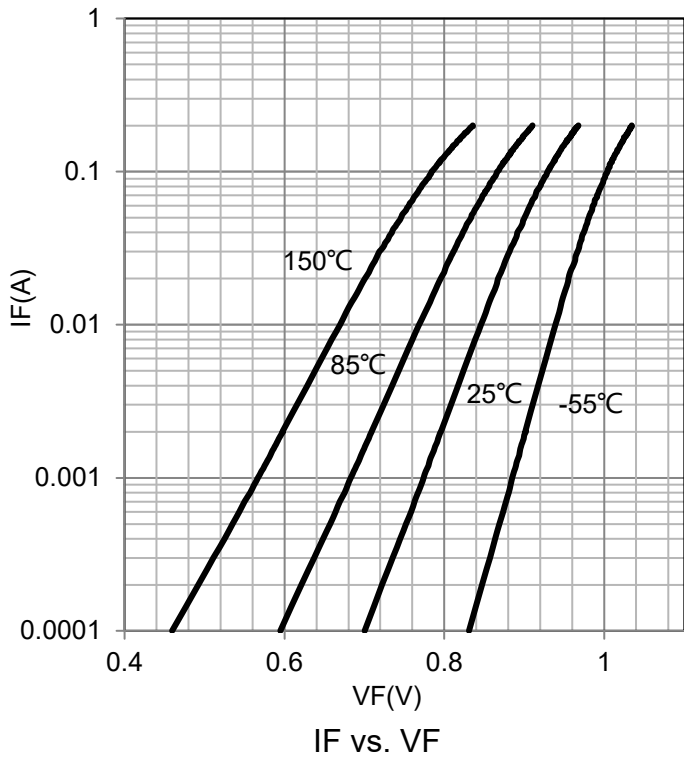
| Parameter | Symbol | Limits | Unit |
|----------------------|--------|-------------|------|
| DC reverse voltage | VR | 35 | V |
| DC forward current | IF | 100 | mA |
| Junction temperature | Tj | 125 | °C |
| Storage temperature | Tstg | -55 to +125 | °C |

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

| Characteristic | Symbol | Min. | Typ. | Max. | Unit |
|--|--------|------|------|------|------|
| Forward voltage (IF =10mA) | VF | - | - | 1 | V |
| Reverse current (VR =25V) | IR | - | - | 10 | nA |
| Capacitance between terminals (VR =6V, f =1MHz) | CT | - | - | 1.2 | pF |
| Forward operating resistance (IF =2mA, f =100MHz) | rF | - | - | 0.9 | Ohm |



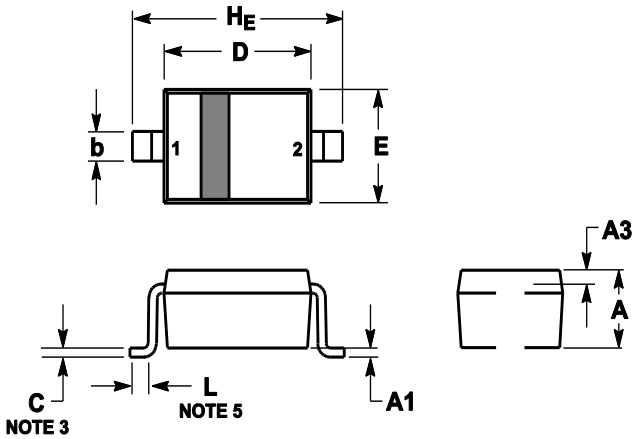
5.ELECTRICAL CHARACTERISTICS CURVES



6. 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 | 0.8 | 0.9 | 1 | 0.031 | 0.035 | 0.04 |
| A1 | 0 | 0.05 | 0.1 | 0 | 0.002 | 0.004 |
| A3 | 0.15REF | | | 0.006REF | | |
| b | 0.25 | 0.32 | 0.4 | 0.01 | 0.012 | 0.016 |
| C | 0.089 | 0.12 | 0.177 | 0.003 | 0.005 | 0.007 |
| D | 1.6 | 1.7 | 1.8 | 0.062 | 0.066 | 0.07 |
| E | 1.15 | 1.25 | 1.35 | 0.045 | 0.049 | 0.053 |
| L | 0.08 | | | 0.003 | | |
| H_E | 2.3 | 2.5 | 2.7 | 0.09 | 0.098 | 0.105 |

7. SOLDERING FOOTPRINT

