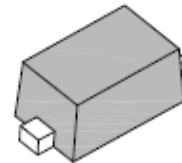


Two Terminals Schottky Barrier Diode

Features

- For high speed switching
- Low reverse current
- Low forward voltage
- RoHS compliant



SOD-523



Mechanical Data

| | |
|-------------------|---|
| Case: | SOD-523, Plastic Case |
| Terminals: | Solderable per MIL-STD-750, Method 2026 |
| Polarity: | Color band denotes the cathode end |
| Weight: | Approx. 0.0016 gram |

Maximum Ratings *(T_{Ambient}=25°C unless noted otherwise)*

| Symbol | Description | TSD0033-728WT | Unit | Conditions |
|--------------------------|--|---------------|------|------------|
| | Marking Code | UT | | |
| V_{RRM} | Repetitive Peak Reverse Voltage | 30 | V | |
| V_{RM} | Reverse Voltage | 30 | V | |
| I_{FM} | Peak Forward Current | 150 | mA | |
| I_{F(AV)} | Average Forward Current | 30 | mA | |
| I_{FSM} | Non-repetitive Peak Surge Current (10mS) | 200 | mA | |
| P_D | Power Dissipation | 150 | mW | Note |
| T_J | Junction Temperature | 125 | °C | |
| T_{stg} | Storage Temperature Range | -55 to +125 | °C | |

Note: Mounted on a glass epoxy circuit board of 20x20mm, pad dimension of 4x4mm.

Two Terminals Schottky Barrier Diodes

TSD0033-728WT

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

| Symbol | Description | Typ. | Max. | Unit | Conditions |
|----------------------|-------------------|------|------|------|----------------------------|
| V_F | Forward Voltage | 0.30 | 0.40 | V | I _F =1mA |
| | | 0.42 | 0.55 | V | I _F =30mA |
| I_R | Reverse Current | - | 300 | μA | V _R =30V |
| C_T | Total Capacitance | 6.5 | - | pF | V _R =1V, f=1MHz |

Typical Characteristics Curves

Fig.1- I_F vs. V_F

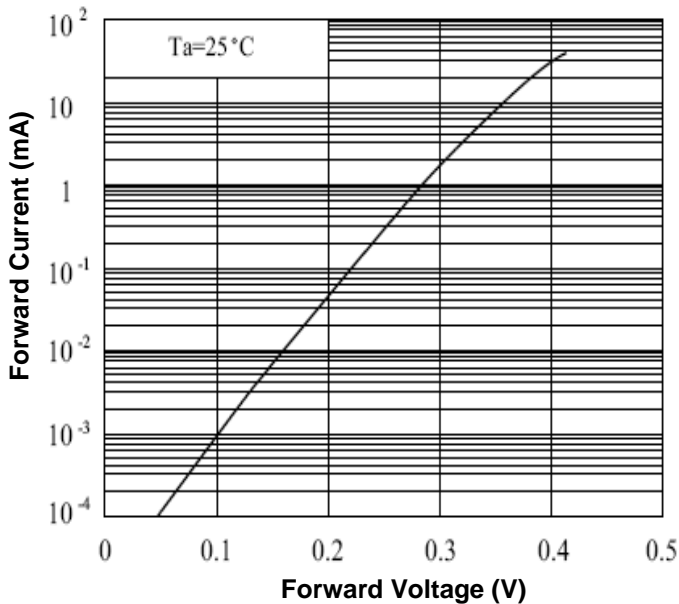
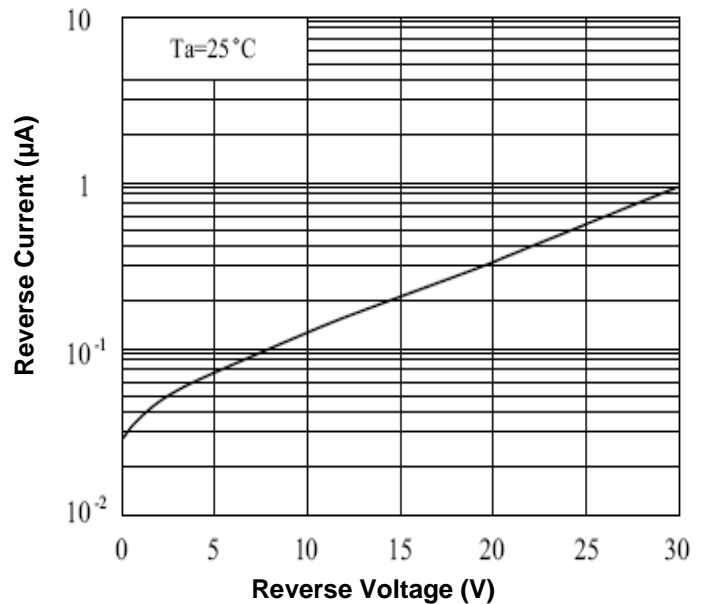


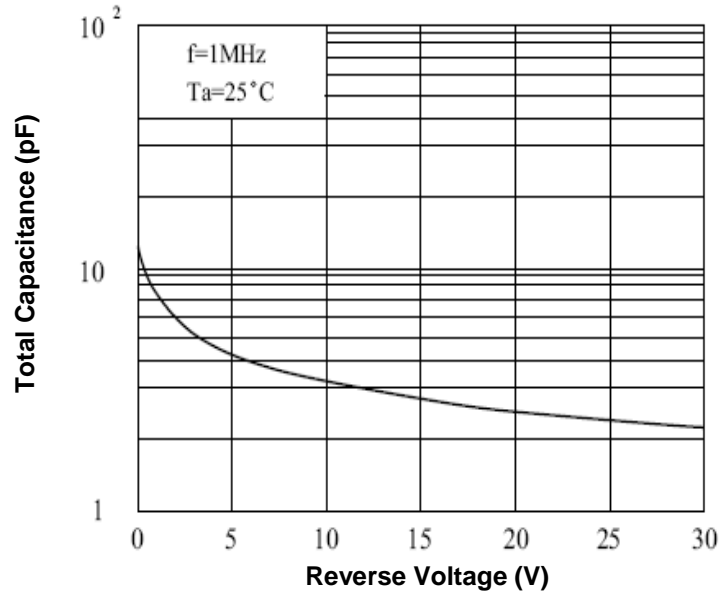
Fig.2- I_R vs. V_R



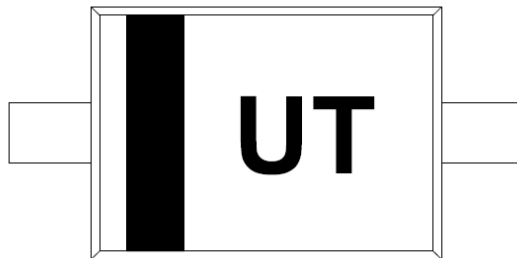
Two Terminals Schottky Barrier Diodes

TSD0033-728WT

Fig.3- C_T vs. V_R



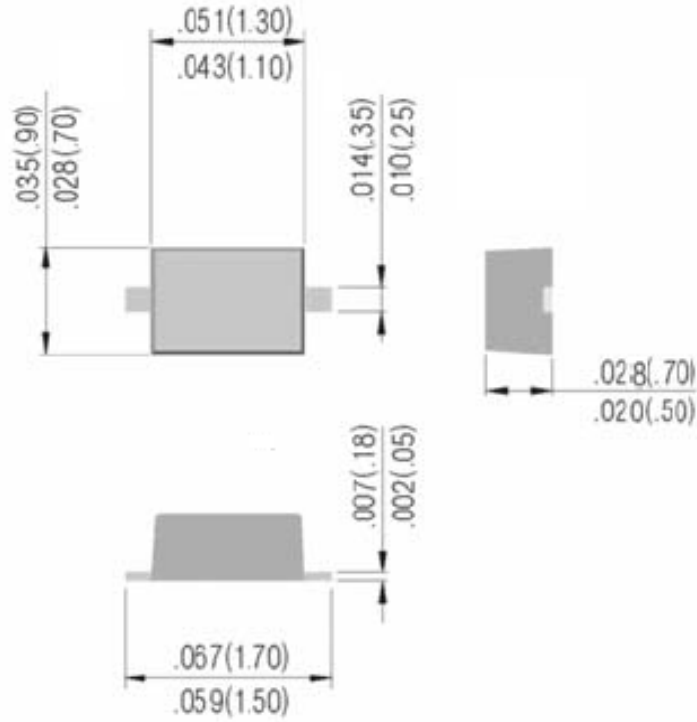
Marking Information:



Two Terminals Schottky Barrier Diodes

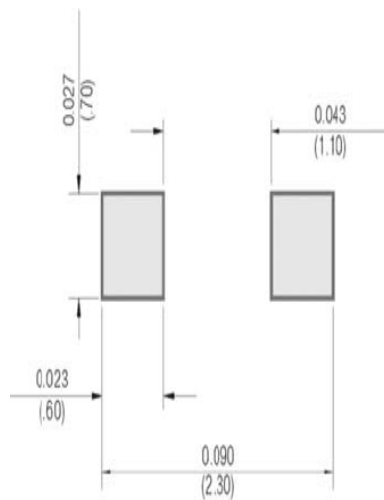
TSD0033-728WT

Dimensions in inch (mm)



SOD-523

Mounting Pad Layout in inch (mm)



Two Terminals Schottky Barrier Diodes

TSD0033-728WT

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