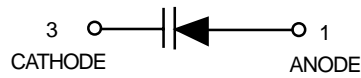


Silicon Pin Diode

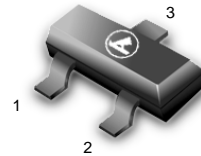
This device is designed primarily for VHF band switching applications but is also suitable for use in general-purpose switching circuits. Supplied in a surface Mount package.

- Rugged Pin Structure Coupled with Wirebond Construction for Optimum Reliability
- Low Capacitance—0.7pF Typ at VR=20Vdc
- Very Low Series Resistance at 100MHz—0.34Ohms(Typ)@IF=10mAdc



MMBV3401LT1

SILICON PIN SWITCHING DIODE



**CASE 318-08, STYLE 6
SOT- 23 (TO-236AB)**

MAXIMUM RATINGS(EACH DIODE)

| Rating | Symbol | Value | Unit |
|--|-----------|-------------|-------|
| Reverse Voltage | V_R | 20 | Vdc |
| Forward power Dissipation @ $T_A = 25^\circ\text{C}$ | P_D | 200 | mW |
| Derate above 25°C | | 2.0 | mW/°C |
| Junction Temperature | T_J | +125 | °C |
| Storage Temperature Range | T_{slg} | -55 to +150 | °C |

DEVICE MARKING

MMBV3401LT1=4D

ELECTRICAL CHARACTERISTICS($T_A=25^\circ\text{C}$ unless otherwise noted)

| Characteristic | Symbol | Min | Typ | Max | Unit |
|--|-------------|-----|-----|-----|-----------------|
| Reverse Breakdown Voltage ($I_R=10\mu\text{Adc}$) | $V_{(BR)R}$ | 35 | — | — | Vdc |
| Diode Capacitance ($V_R=20\text{ Vdc}$) | C_T | — | — | 1.0 | pF |
| Series Resistance(figure5) ($I_F=10\text{mAdc}, f=100\text{MHz}$) | R_S | — | — | 0.7 | Ω |
| Reverse Voltage Leakage Current ($V_R=15\text{Vdc}$) | I_R | — | — | 0.1 | μAdc |

MMBV3401LT1

TYPICAL CHARACTERISTICS

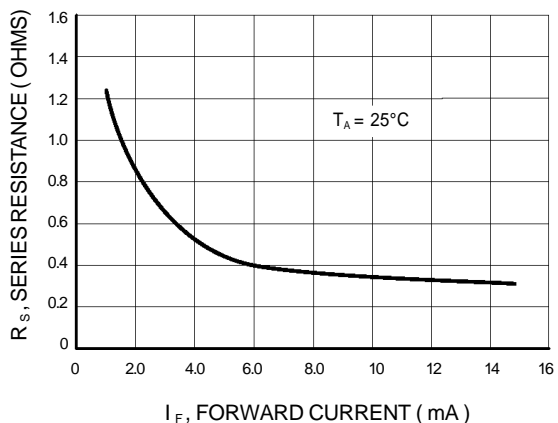


Figure 1. Series Resistance

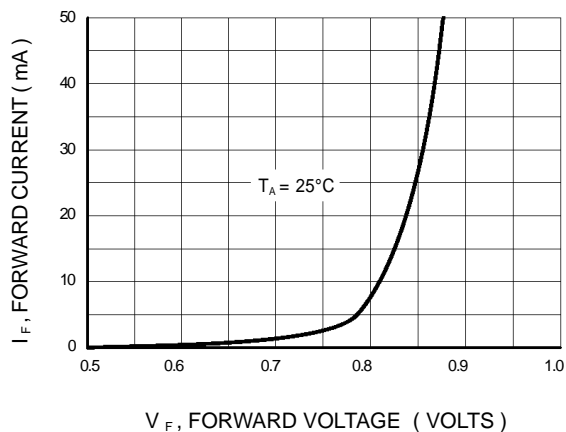


Figure 2. Forward Voltage

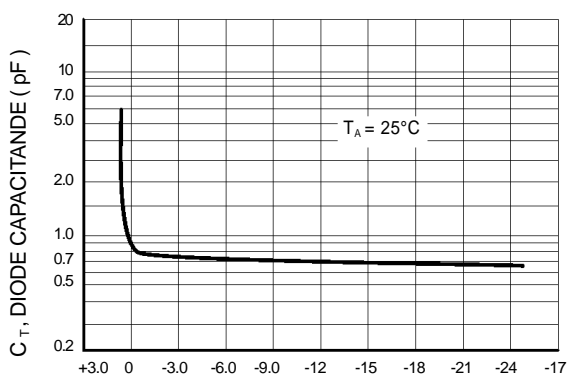


Figure 3. Diode Capacitance

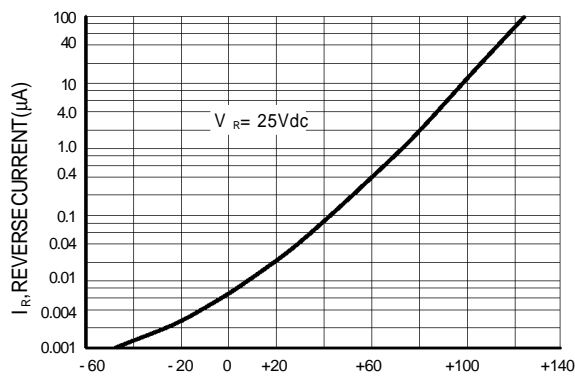


Figure 4. Leakage Current