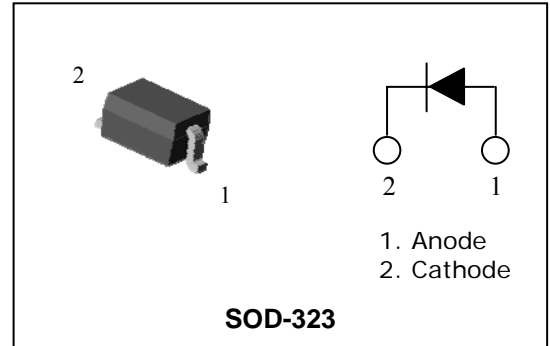


Features

- Extremely small size package:
1.7×1.25×0.9 mm Typ.
- VHF tuner band switch applications.
- Very Low series resistance :
 $r_s = \text{Typ } 0.5\Omega @ I_F = 2\text{mA}$
- Low total capacitance :
 $C_T = 1.2\text{pF (Max.)}$

PIN Connection



Ordering Information

| Type NO. | Marking | Package Code |
|----------|-------------------------|--------------|
| SDP411D | $\frac{L1}{\text{① ②}}$ | SOD-323 |

① Device Code ② Year & Week Code

Absolute Maximum Ratings

(Ta=25°C)

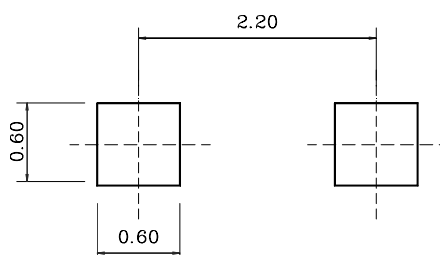
| Characteristic | Symbol | Rating | Unit |
|----------------------------|-----------|-----------|------|
| Continuous reverse voltage | V_R | 30 | V |
| Forward current | I_F | 100 | mA |
| Junction temperature | T_J | 150 | °C |
| Storage temperature range | T_{stg} | -55 ~ 150 | °C |

Electrical Characteristics

(Ta=25°C)

| Characteristic | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|-------------------|--------|---------------------------------------|------|------|------|------|
| Forward voltage | V_F | $I_F = 2\text{mA}$ | - | - | 0.85 | V |
| Reverse current | I_R | $V_R = 15\text{V}$ | - | - | 0.1 | μA |
| Reverse voltage | V_R | $I_R = 1\mu\text{A}$ | 30 | - | - | V |
| Total capacitance | C_T | $V_R = 6\text{V}, f = 1\text{MHz}$ | - | 0.8 | 1.2 | pF |
| Series resistance | r_s | $I_F = 2\text{mA}, f = 100\text{MHz}$ | - | 0.5 | 0.9 | Ω |

※ Recommend PCB solder land (Unit : mm)



Electrical Characteristic Curves

Fig. 1 r_s - I_F

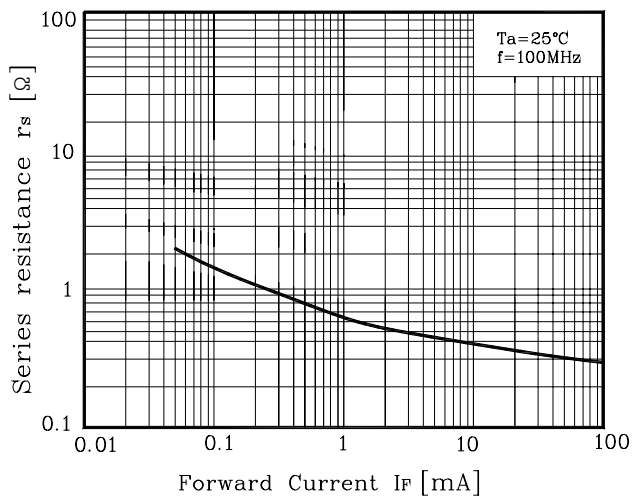


Fig. 2 C_T - V_R

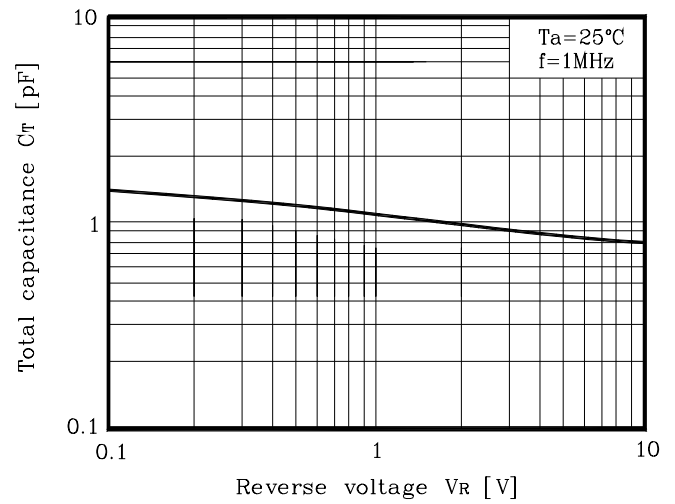


Fig. 3 I_F - V_F

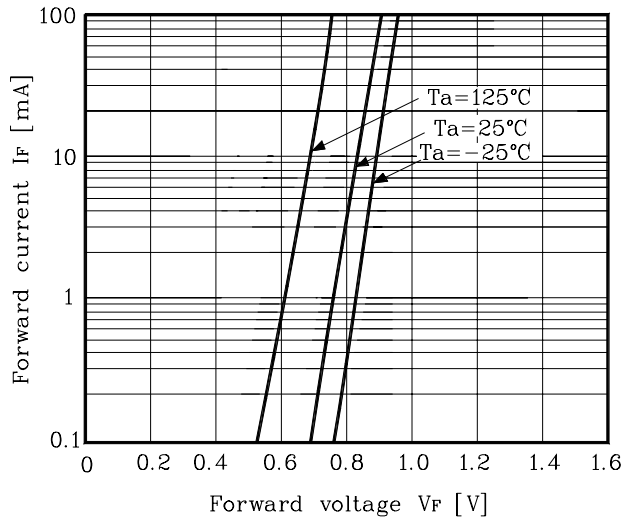
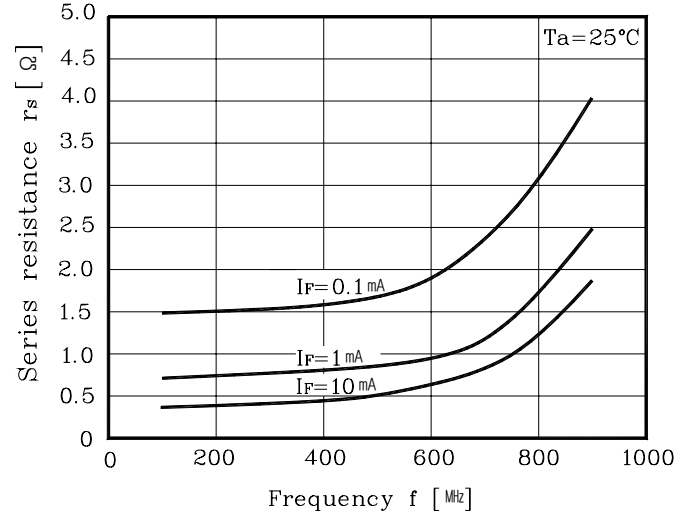
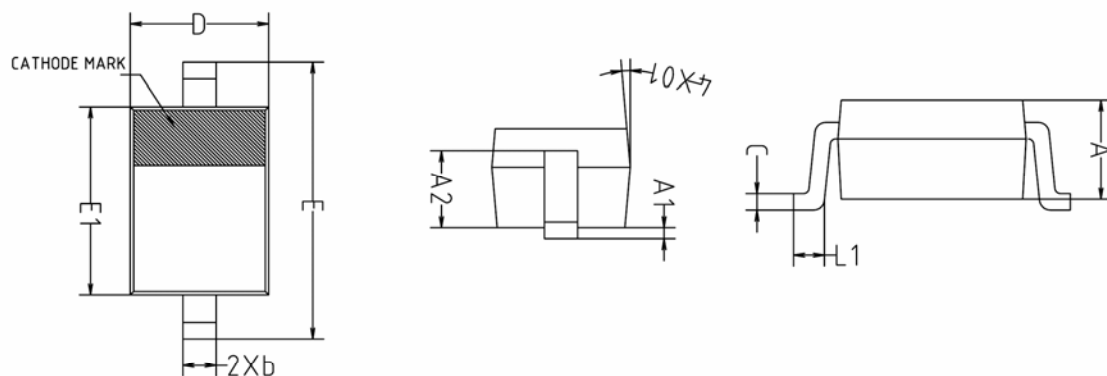


Fig. 4 r_s - f



Outline Dimension



| SYMBOL | MILLIMETERS | | | NOTE |
|--------|-------------|---------|---------|------|
| | MINIMUM | NOMINAL | MAXIMUM | |
| A | 0.850 | - | 0.950 | |
| A1 | 0.000 | - | 0.100 | |
| A2 | 0.650 | 0.700 | 0.750 | |
| b | 0.250 | 0.300 | 0.350 | |
| c | 0.110 | 0.150 | 0.190 | |
| D | 1.200 | 1.250 | 1.300 | |
| E | 2.400 | 2.500 | 2.600 | |
| E1 | 1.650 | 1.700 | 1.750 | |
| L1 | 0.200 | - | 0.300 | |
| θ2 | 5° REF | | | |

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