

**SVC222**

Varactor Diode for FM Receiver Electronic Tuning Use

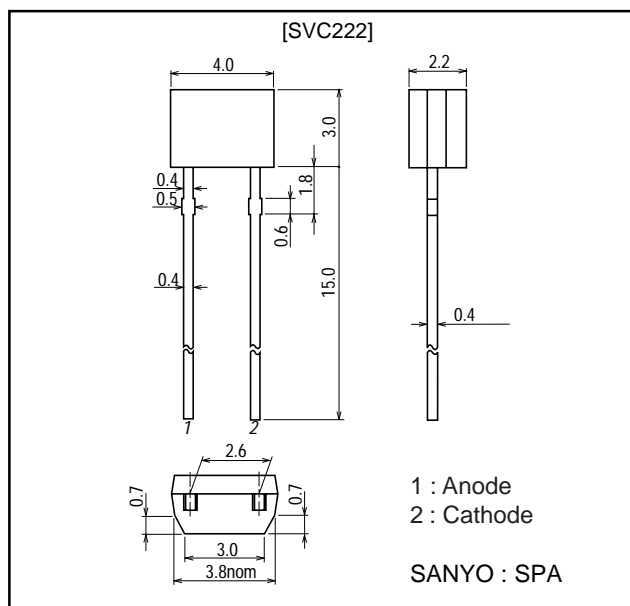
Features

- Guaranteed matching to 4.0% at $V_R=2V$.
- High Q.

Package Dimensions

unit : mm

1184



Specifications

Absolute Maximum Ratings at $T_a=25^\circ C$

| Parameter | Symbol | Conditions | Ratings | Unit |
|----------------------|-----------|------------|-------------|------------|
| Reverse Voltage | V_R | | 16 | V |
| Junction Temperature | T_J | | 125 | $^\circ C$ |
| Storage Temperature | T_{stg} | | -55 to +125 | $^\circ C$ |

Electrical Characteristics at $T_a=25^\circ C$

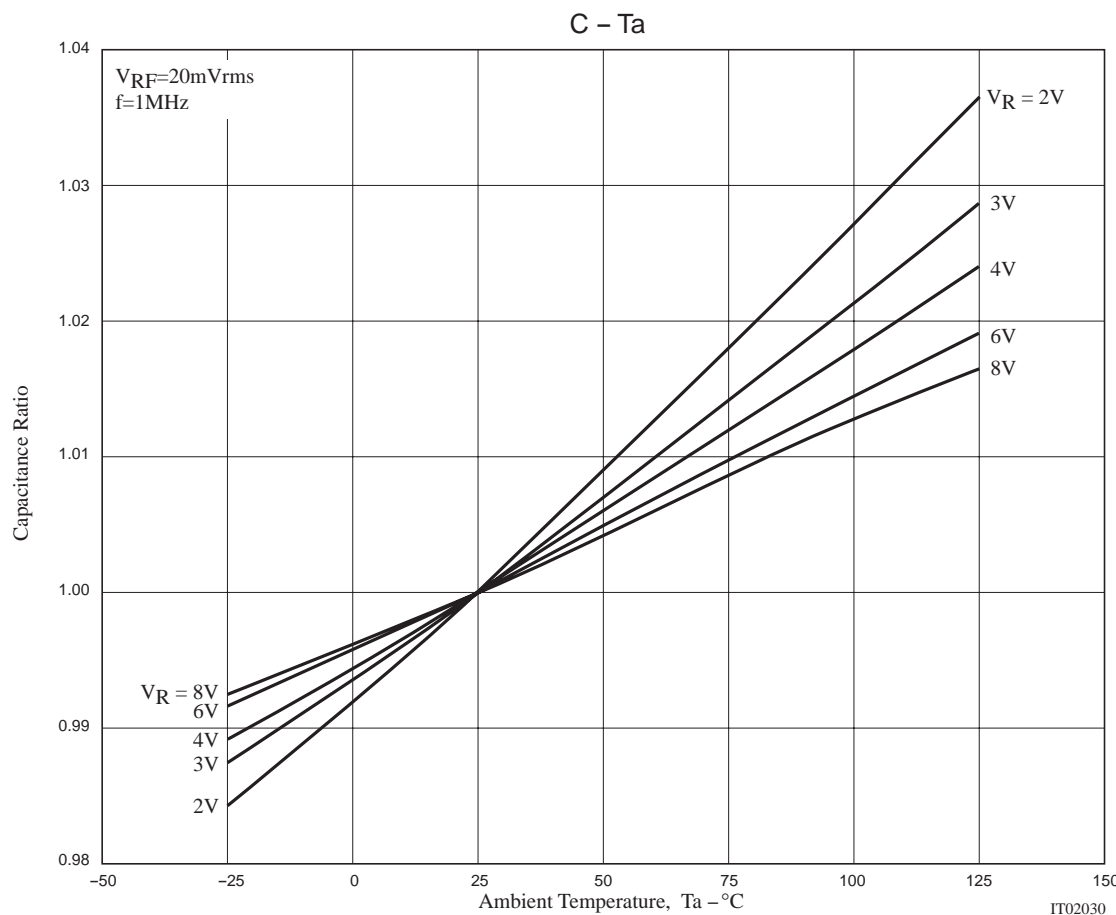
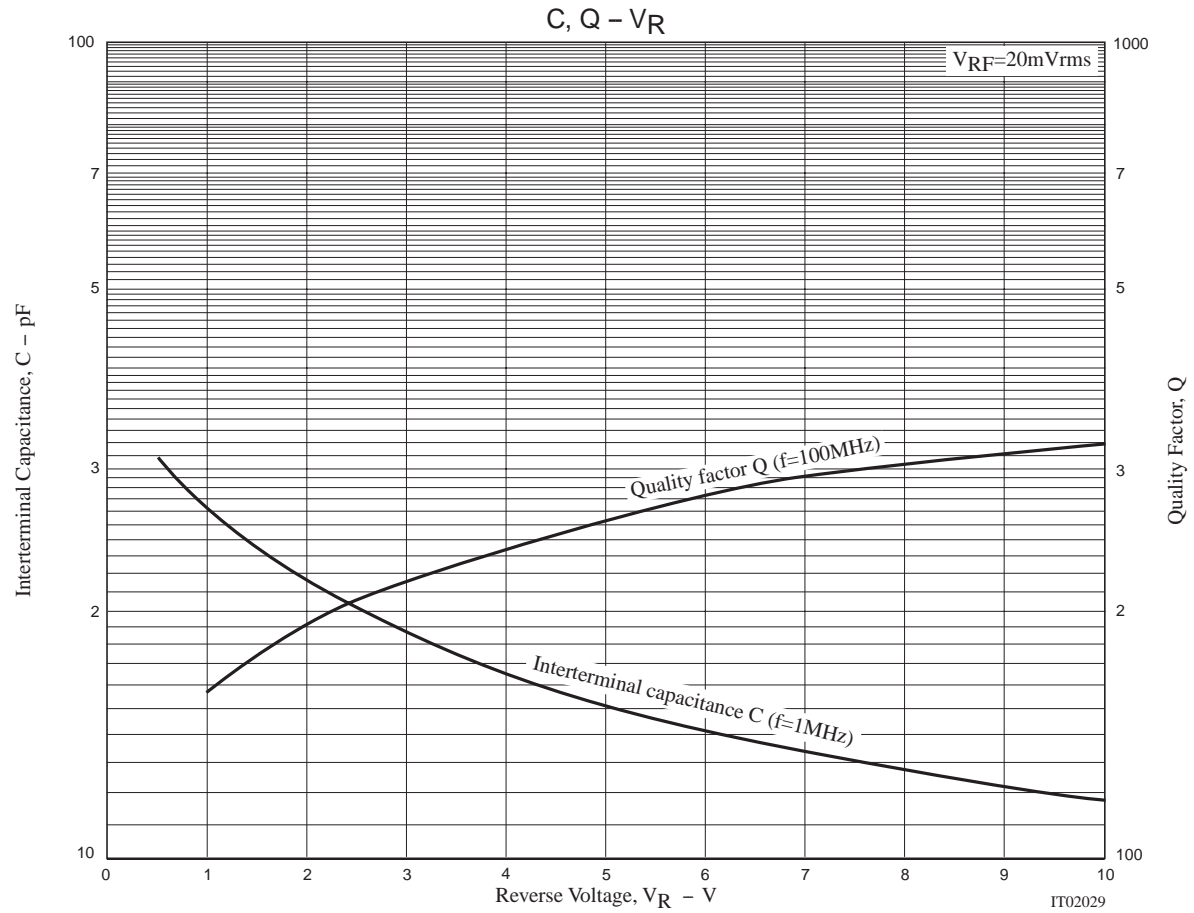
| Parameter | Symbol | Conditions | Ratings | | Unit |
|---------------------------|--------------|---|---------|-------|------|
| | | | min | max | |
| Breakdown Voltage | $V_{(BR)R}$ | $I_R=10\mu A$ | 16 | | V |
| Reverse Current | I_R | $V_R=10V$ | | 50 | nA |
| Interterminal Capacitance | C_{2V} | $V_R=2.0V, f=1MHz$ | 20.80 | 24.80 | pF |
| | C_{8V} | $V_R=8.0V, f=1MHz$ | 12.00 | 15.00 | pF |
| Quality Factor | Q | $V_R=3.0V, f=100MHz$ | 100 | | |
| Capacitance Ratio | CR | $C_{2.0V} / C_{8.0V}$ | 1.65 | 1.75 | |
| Matching Tolerance | ΔC_m | $V_R=2.0V, f=1MHz (C_{max} - C_{min}) / C_{min} \times 100$ | | 4.0 | % |

Note : Matching Tolerance is valid for the devices in each taping reel.

* : 1MHz signal : 20mVrms

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SVC222



SVC222

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