



ON Semiconductor®

# ON Semiconductor DATA SHEET

## SVC707 — Silicon Diffused Junction Type FM Receiver Electronic Tuning Applications

### Features

- High capacitance ratio.
- Low voltage drive.

### Specifications

**Absolute Maximum Ratings** at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V <sub>R</sub>		15	V
Junction Temperature	T <sub>J</sub>		150	°C
Storage Temperature	T <sub>stg</sub>		-55 to +150	°C

**Electrical Characteristics** at Ta=25°C

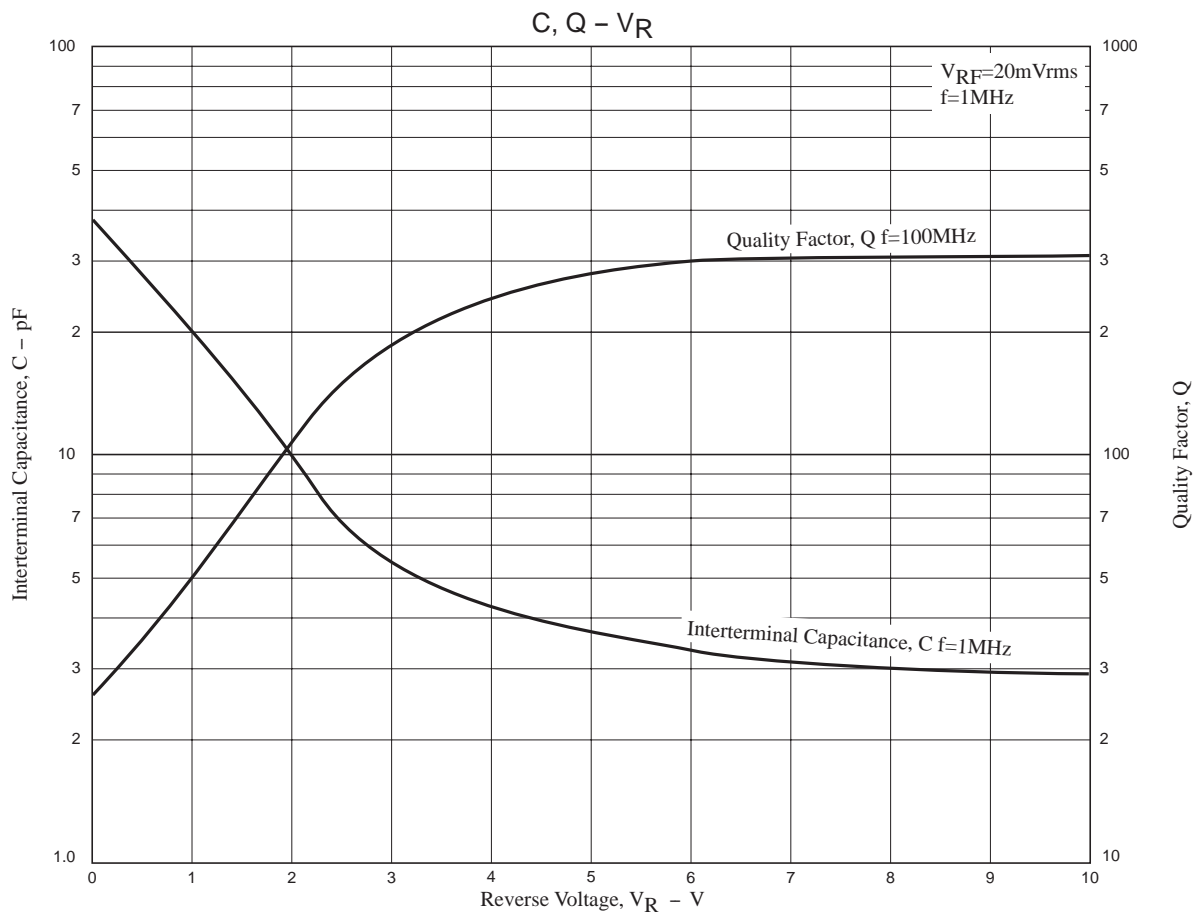
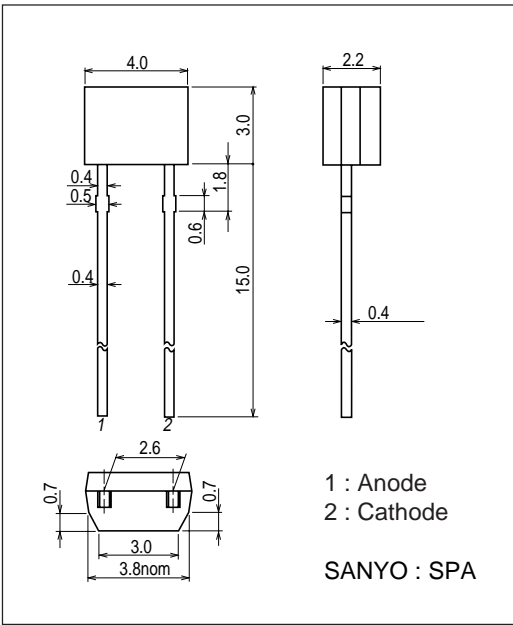
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	V(BR) <sub>R</sub>	I <sub>R</sub> =10μA	15			V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =15V			20	nA
Interterminal Capacitance	C <sub>1.0V</sub>	V <sub>R</sub> =1.0V, f=1MHz*	18.58		21.26	pF
	C <sub>4.0V</sub>	V <sub>R</sub> =4.0V, f=1MHz	3.61		4.73	pF
Capacitance Ratio	C <sub>R</sub>	C <sub>1.0V</sub> / C <sub>4.0V</sub>		4.8		
Series Resistance	r <sub>s</sub>	V <sub>R</sub> =1.0V, f=100MHz		1.6		Ω
Matching Tolerance	ΔC <sub>m</sub>	(C <sub>max</sub> -C <sub>min</sub> ) / C <sub>min</sub> ×100			3.0	%

\* : 1MHz signal : 20mV<sub>rms</sub>

Package Dimensions

unit : mm

7523-001



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