



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 _R		15	V
Junction Temperature	T _J		150	°C
Storage Temperature	T _{stg}		-55 to +150	°C

Electrical Characteristics at Ta=25°C

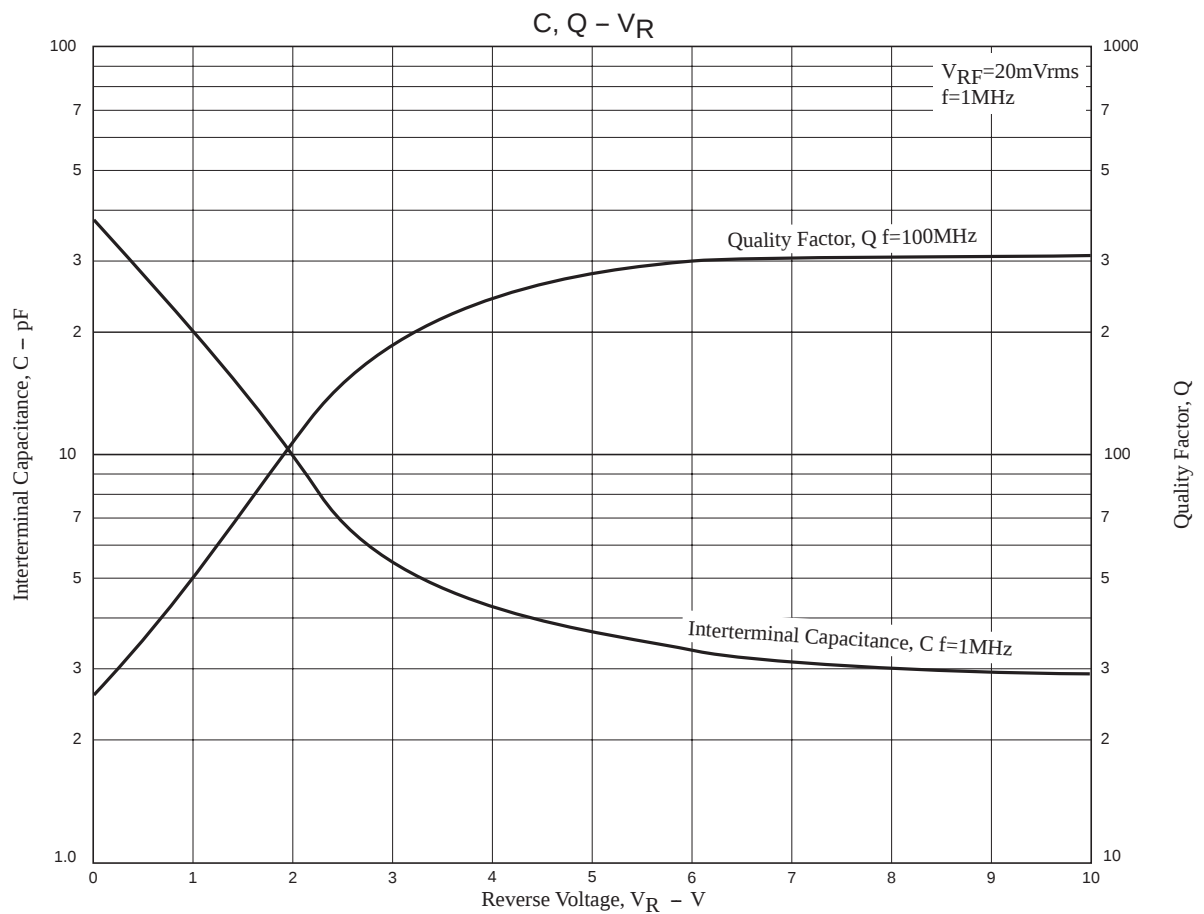
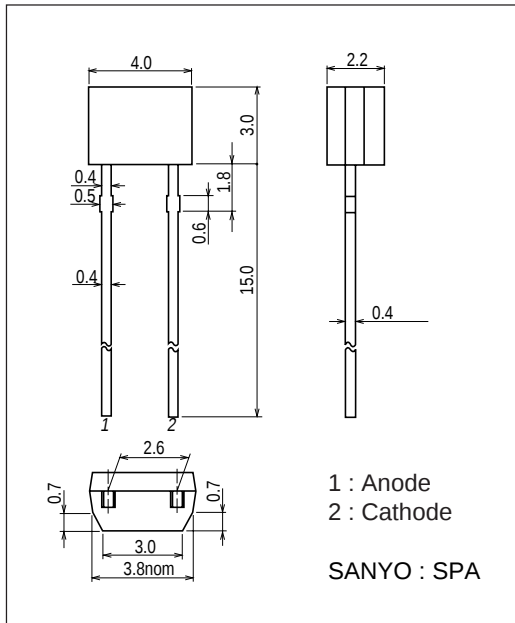
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	V(BR) _R	I _R =10μA	15			V
Reverse Current	I _R	V _R =15V			20	nA
Interterminal Capacitance	C _{1.0V}	V _R =1.0V, f=1MHz*	18.58		21.26	pF
	C _{4.0V}	V _R =4.0V, f=1MHz	3.61		4.73	pF
Capacitance Ratio	C _R	C _{1.0V} / C _{4.0V}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

* : 1MHz signal : 20mV_{rms}

Package Dimensions

unit : mm

7523-001



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