



SANYO Semiconductors

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	$V_{(BR)R}$	$I_R=10\mu A$	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	$(C_{max}-C_{min}) / C_{min} \times 100$			3.0	%

* : 1MHz signal : 20mVrms

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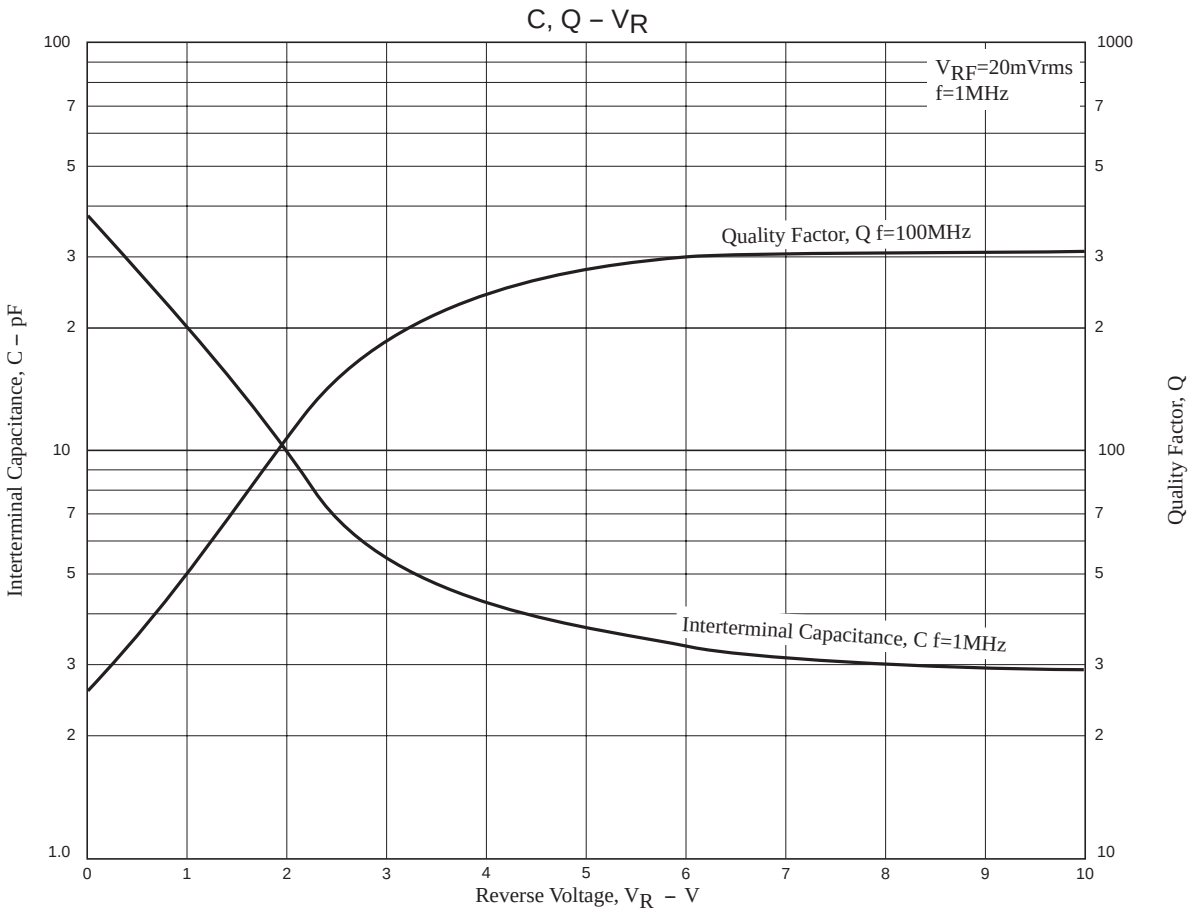
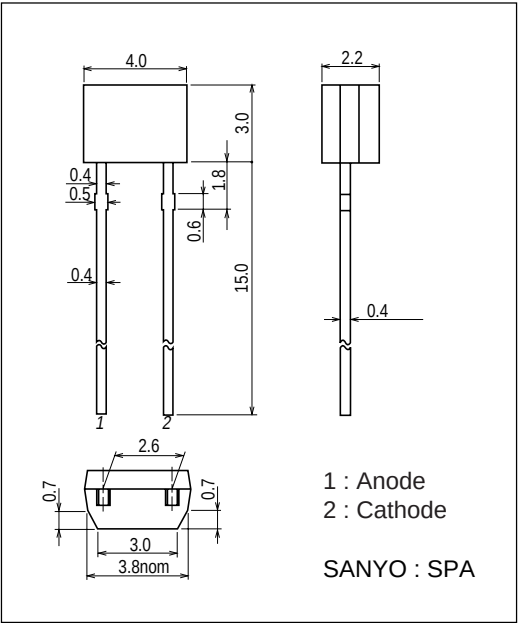
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SANYO Electric Co.,Ltd. Semiconductor Company

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Package Dimensions

unit : mm
7523-001



IT10052

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