



# SVC270 — Diffused Junction Type Silicon Diode Varactor Diode for FM Receiver Electronic Tuning Applications

## Features

- Twin type varactor diode having an excellent large input characteristic, for use in FM electronic tuning applications.
- Small MCPH package permits SVC270-applied sets to be compact and slim.
- Possible to be shipped in tape reel packaging, which facilitates automatic insertion.
- High Q.

## Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	$V_R$		16	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	$V_{(BR)R}$	$I_R=10\mu A$	16			V
Reverse Current	$I_R$	$V_R=10V$			50	nA
Interterminal Capacitance*1	C2.0V	$V_R=2.0V, f=1MHz$	44.0		46.5	pF
	C8.0V	$V_R=8.0V, f=1MHz$	25.1		28.2	pF
Quality Factor	Q	$V_R=3.0V, f=100MHz$	100			
Capacitance Ratio	$C_R$	C2.0V / C8.0V	1.65		1.75	
Matching Tolerance*2	$\Delta C_m$	$V_R=2.0V, f=1MHz (C_{max}-C_{min}) / C_{min} \times 100$			2.5	%

Marking : V4

Note)\*1 : Capacitance value per each diode.

\*2 : Matching Tolerance is valid for the devices in one taping reel.

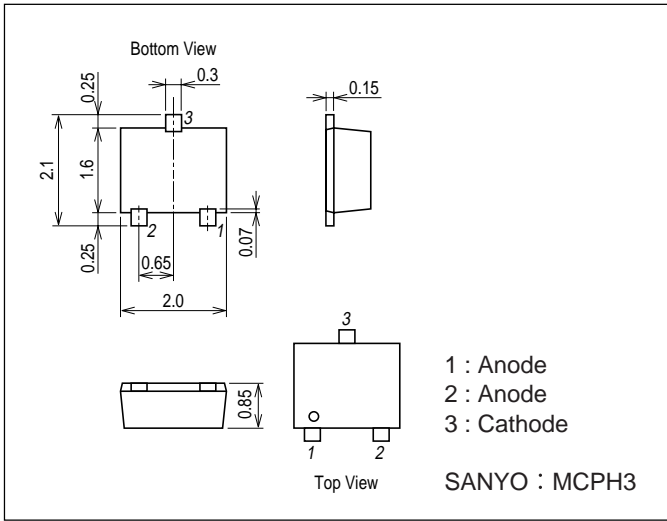
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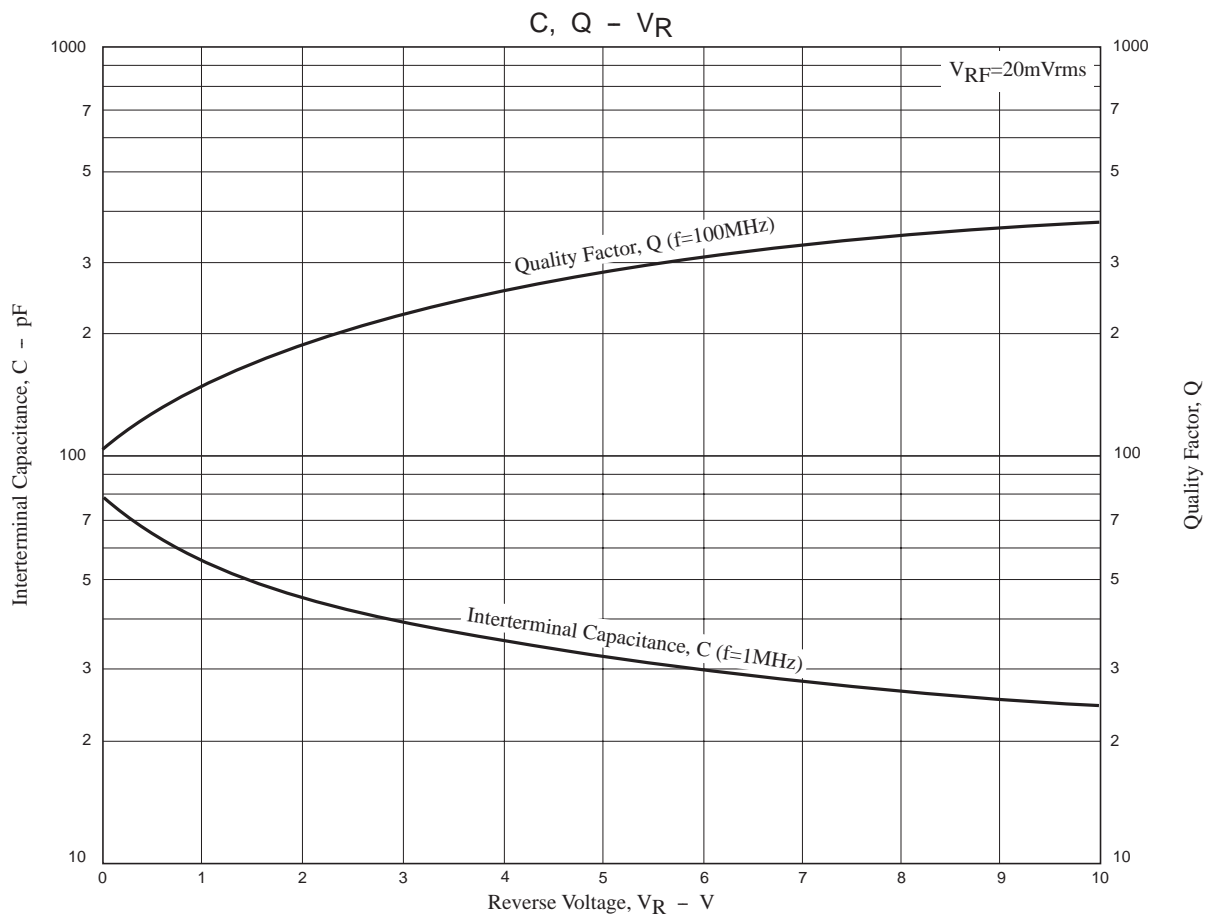
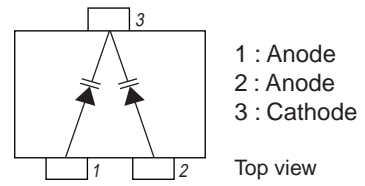
# SVC270

## Package Dimensions

unit : mm  
7019-002

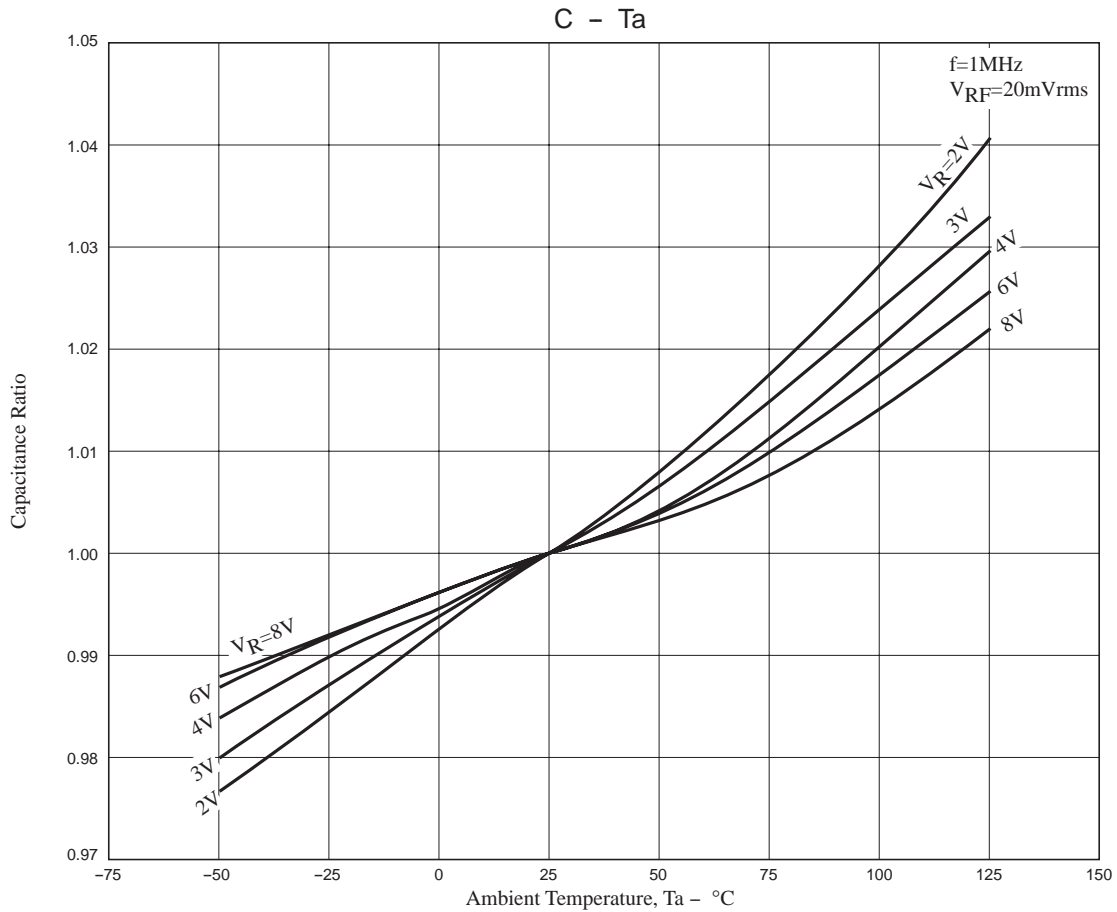


## Electrical Connection



IT10094

# SVC270



IT10095

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