

Ordering number : ENN7404

Diffused Junction Type Silicon Diode

**SVC226**

## Varactor Diode for FM Receiver Electronic Tuning Applications

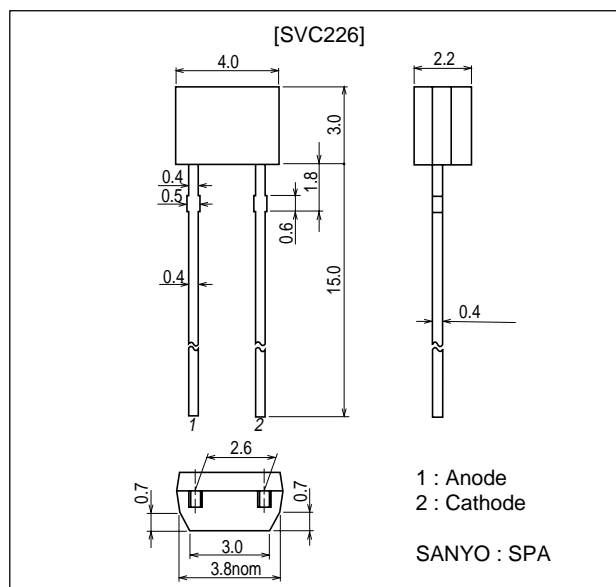
### Features

- High capacitance ratio.
- Uniform capacitance-voltage characteristic provided diode to be used in combination.

### Package Dimensions

unit : mm

1184



### Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	$V_R$		16	V
Junction Temperature	$T_j$		125	°C
Storage Temperature	$T_{stg}$		-55 to +125	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu A$	16			V
Reverse Current	$I_R$	$V_R=16V$			10	nA
Interterminal Capacitance	C1.0V	$V_R=1.0V, f=1MHz$ *	41.78		47.50	pF
	C5.0V	$V_R=5.0V, f=1MHz$	18.04		23.78	pF
	C9.0V	$V_R=9.0V, f=1MHz$	10.75		13.82	pF
Capacitance Ratio	CR	C1.0V / C9.0V	3.0			
Quality Factor	Q	$V_R=3.0V, f=100MHz$	80			
Matching Tolerance	$\Delta C_m$	$V_R=1.0V, 5.0V, 9.0V, f=1MHz, (C_{max}-C_{min}) / C_{min} \times 100$			3	%

\* 1MHz signal : 20mVrms.

Note : Matching Tolerance is valid within each taping reel.

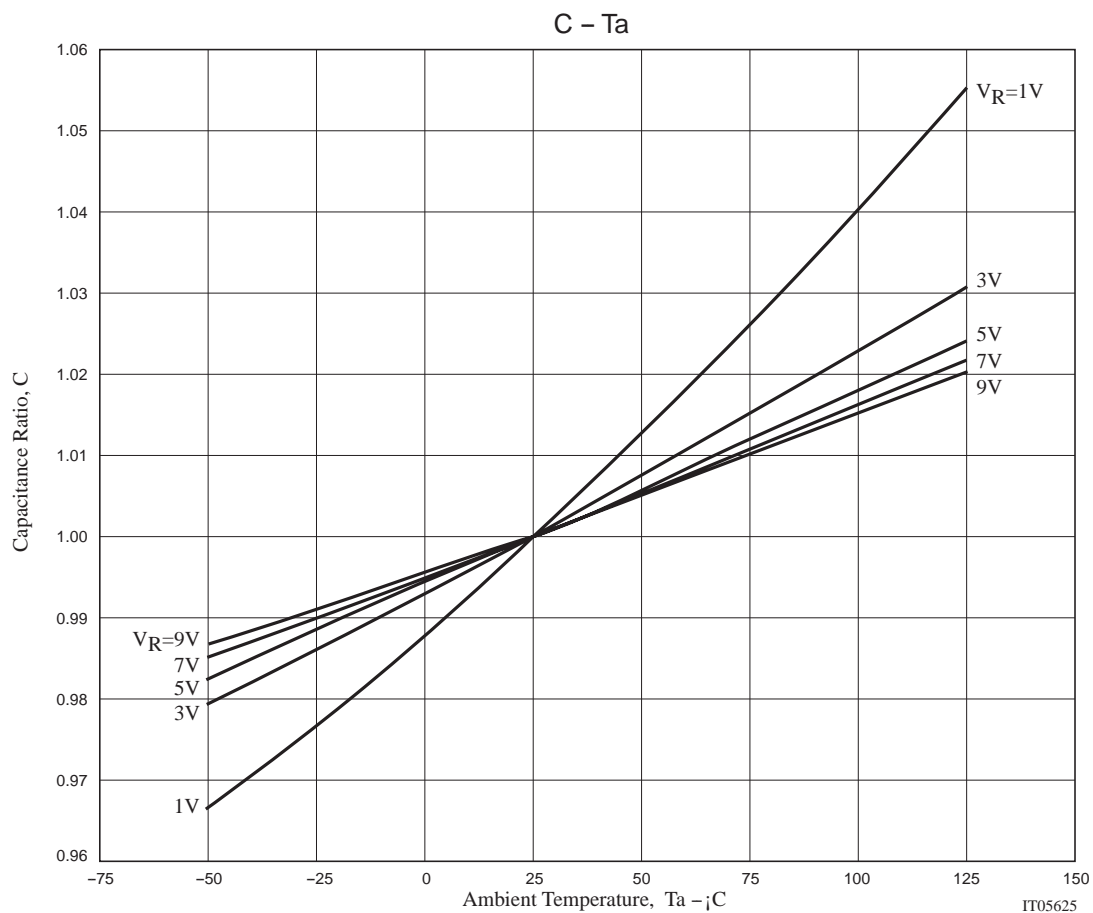
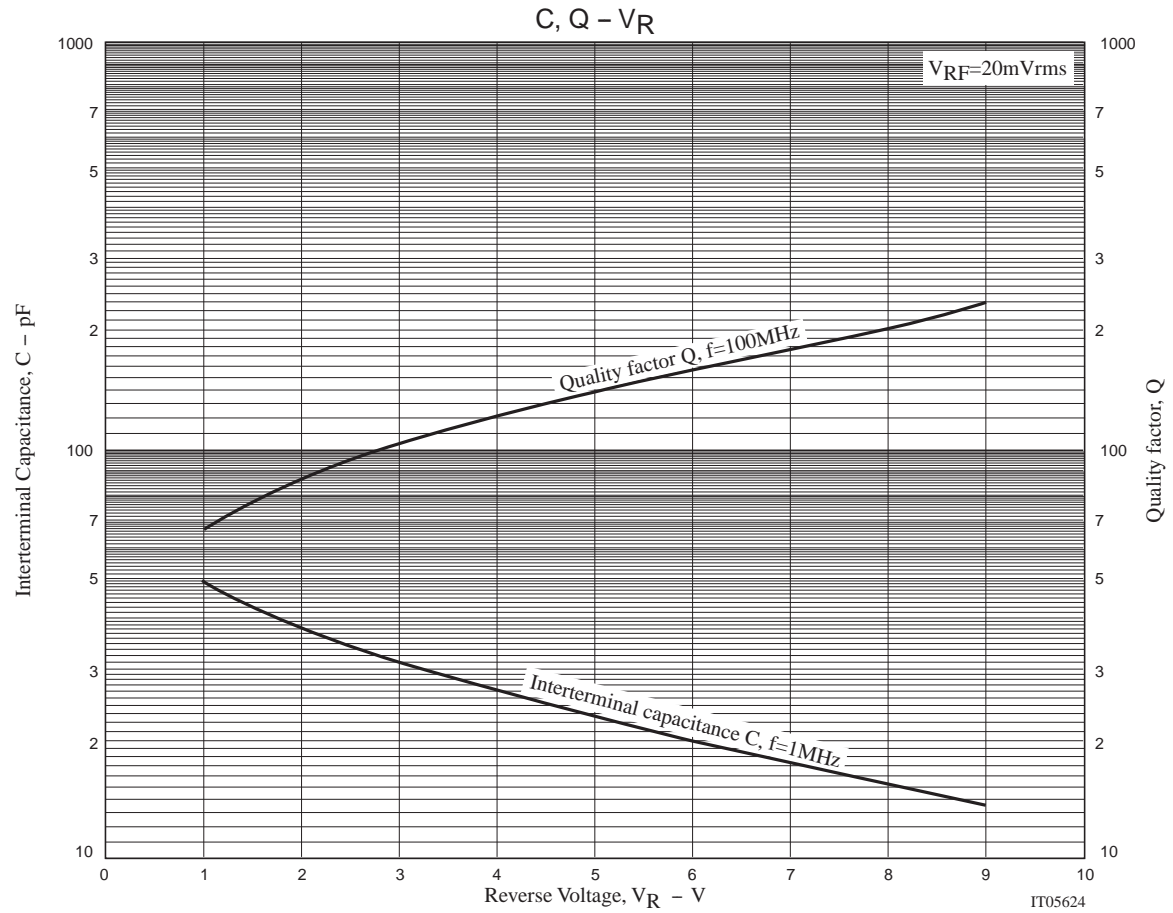
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# SVC226



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