



ON Semiconductor®

# ON Semiconductor DATA SHEET

## SVC704 — Silicon Diffused Junction Type Varactor Diode Varactor Diode for AFC, VCO

### Features

- High capacitance ratio ( $V_R=1.0$  to  $7.0V$ ).
- Small-sized package.
- Low series resistance.

### Specifications

#### Absolute Maximum Ratings at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	$V_R$		16	V
Junction Temperature	$T_J$		150	$^\circ C$
Storage Temperature	$T_{stg}$		-55 to +150	$^\circ C$

#### Electrical Characteristics at $T_a=25^\circ C$

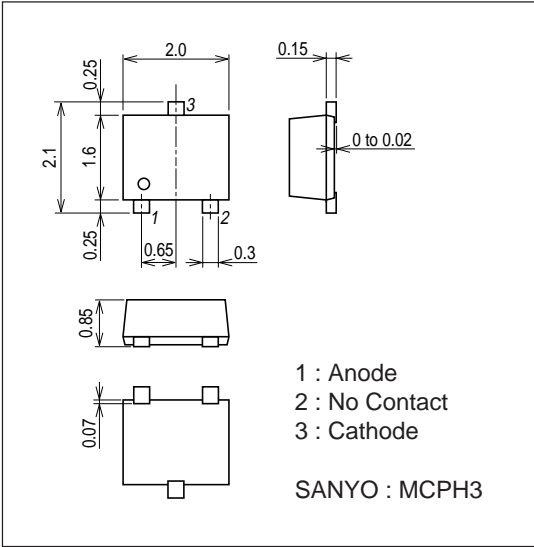
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	16			V
Reverse Current	$I_R$	$V_R=10V$			50	nA
Interterminal Capacitance	C1.0V	$V_R=1.0V, f=1MHz$	26.0		30.0	pF
	C7.0V	$V_R=7.0V, f=1MHz$	3.4		4.6	pF
Series Resistance	$r_s$	$V_R=1.0V, f=470MHz$			0.8	$\Omega$
Capacitance Ratio	CR	C1.0V / C7.0V	6.0			

Marking : V5

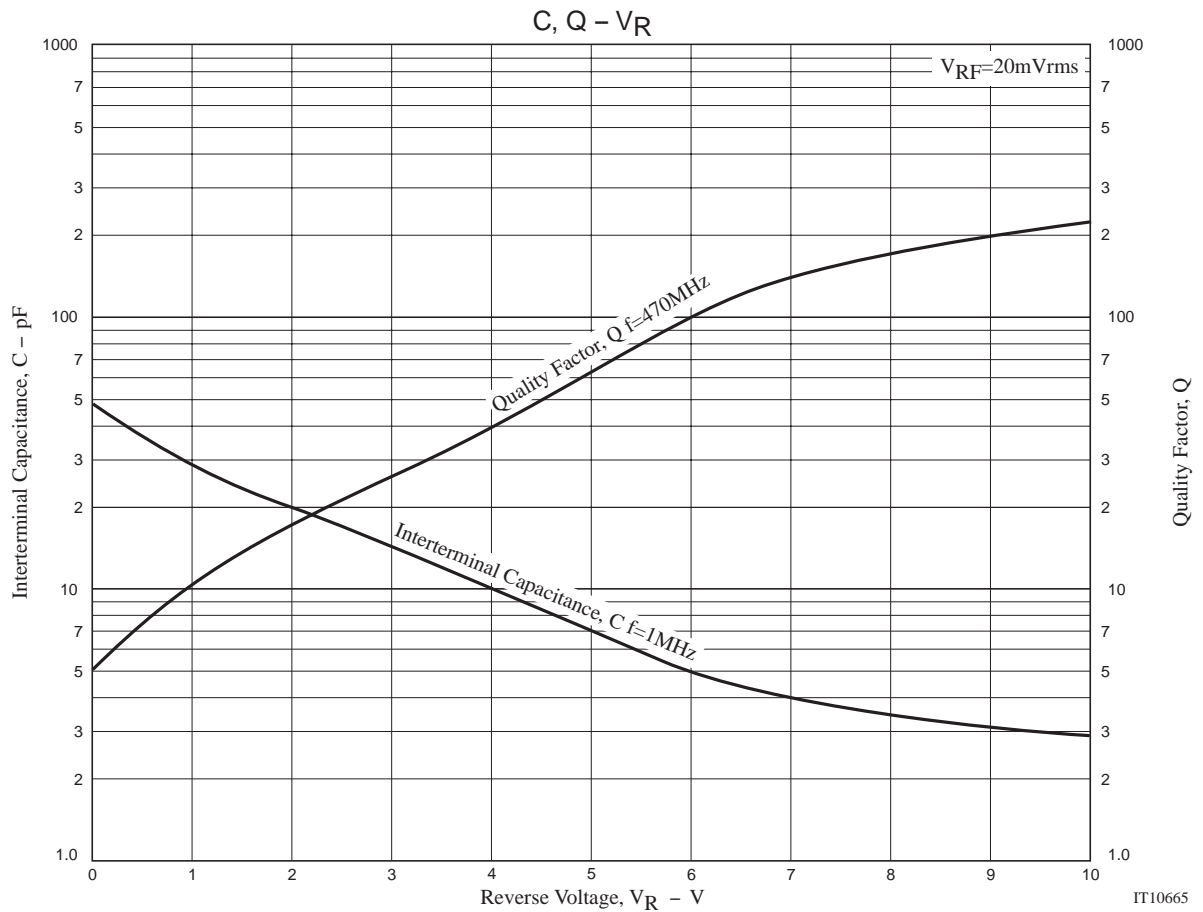
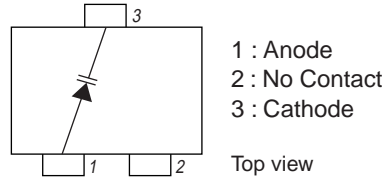
# SVC704

## Package Dimensions

unit : mm  
7019A-001

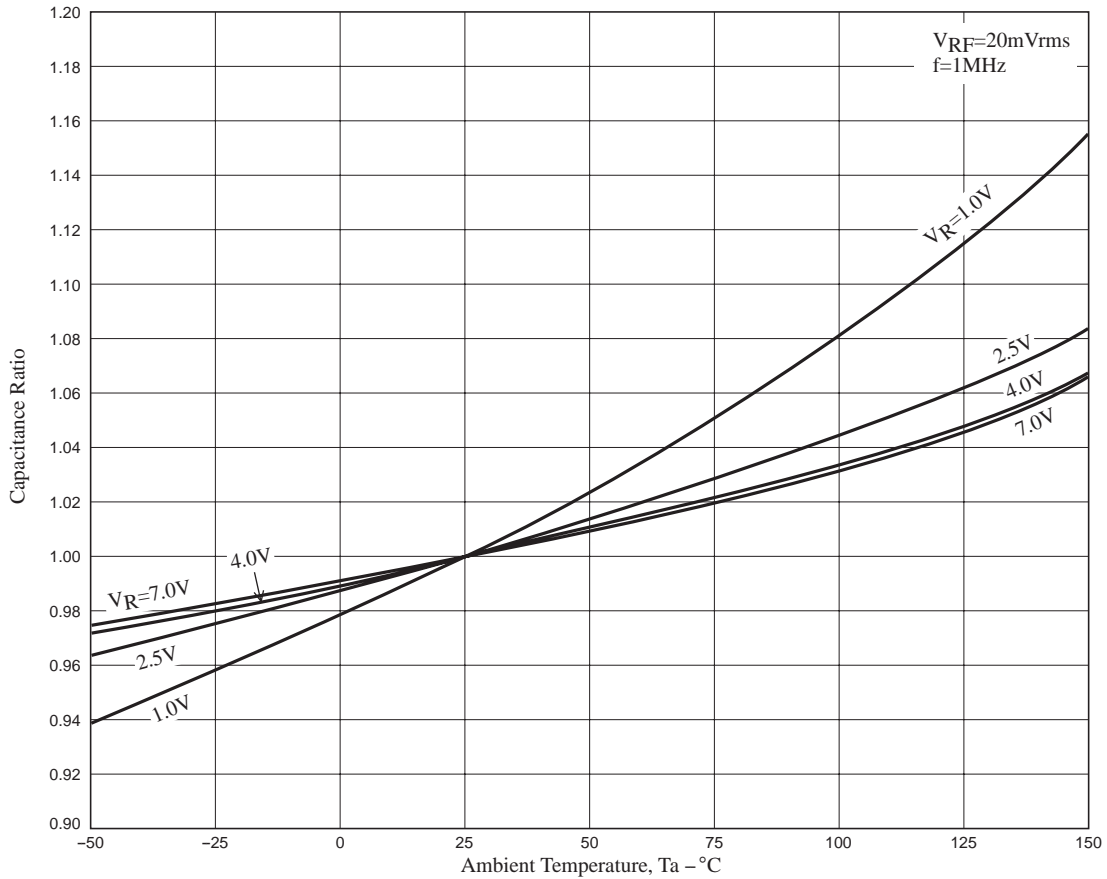


## Electrical Connection



# SVC704

C - Ta



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