



SVC710 Silicon Diffused Junction Type Varactor Diode for AFC, VCO

Features

- High capacitance ratio
- Low voltage drive
- Small-sized package : MCPH

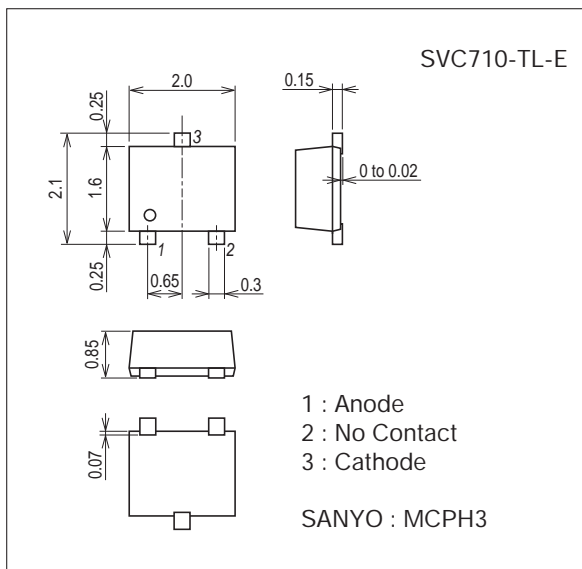
Specifications

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

Package Dimensions

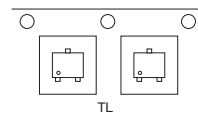
unit : mm (typ)
7019A-001



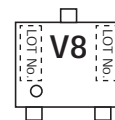
Product & Package Information

- Package : MCPH3
- JEITA, JEDEC : SC-70, SOT-323
- Minimum Packing Quantity : 3,000 pcs./reel

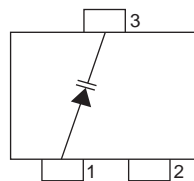
Packing Type : TL



Marking



Electrical Connection



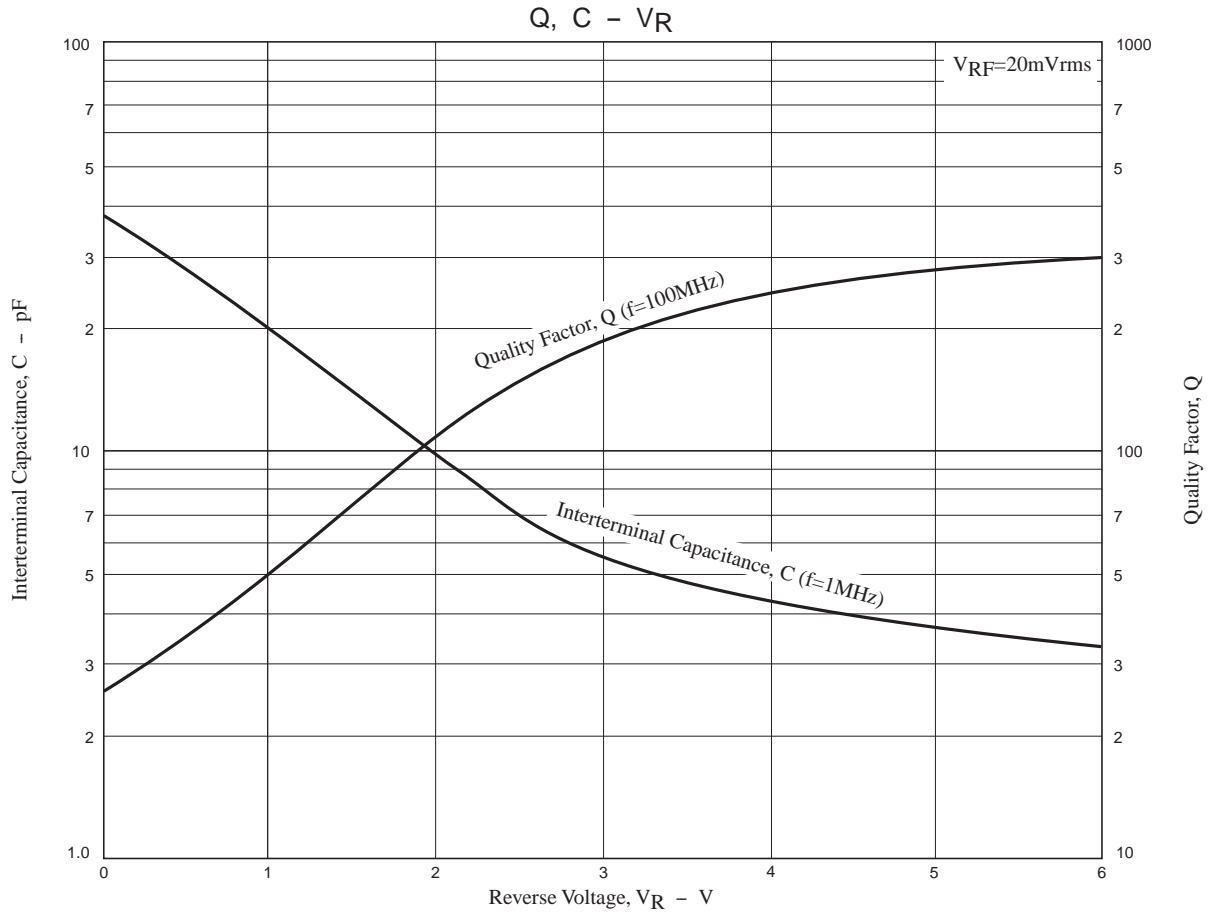
SVC710

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	18.5		21.5	pF
	C _{4.0V}	V _R =4.0V, f=1MHz	3.5		4.8	pF
Series Resistance	r _S	V _R =1.0V, f=100MHz		1.6		Ω
Capacitance Ratio	C _R	C _{1.0V} / C _{4.0V}		4.8		

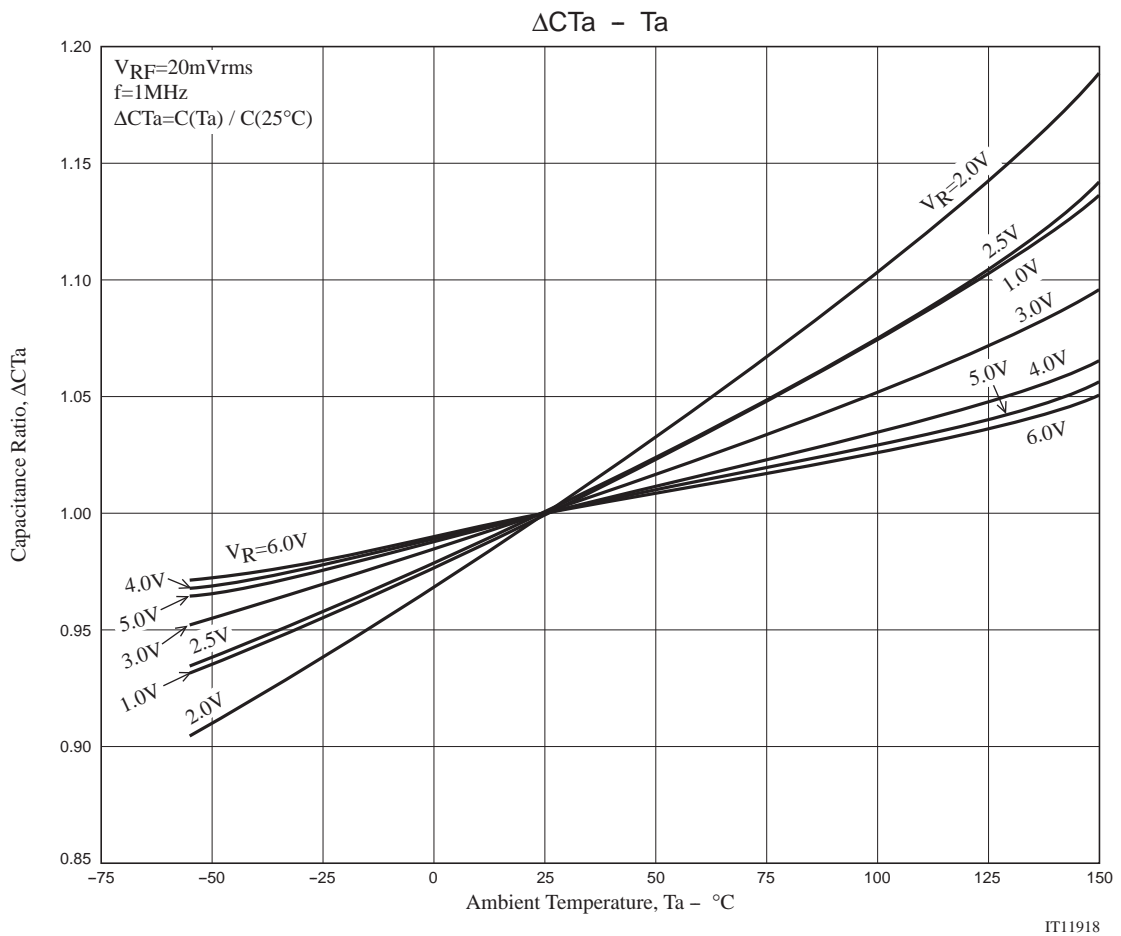
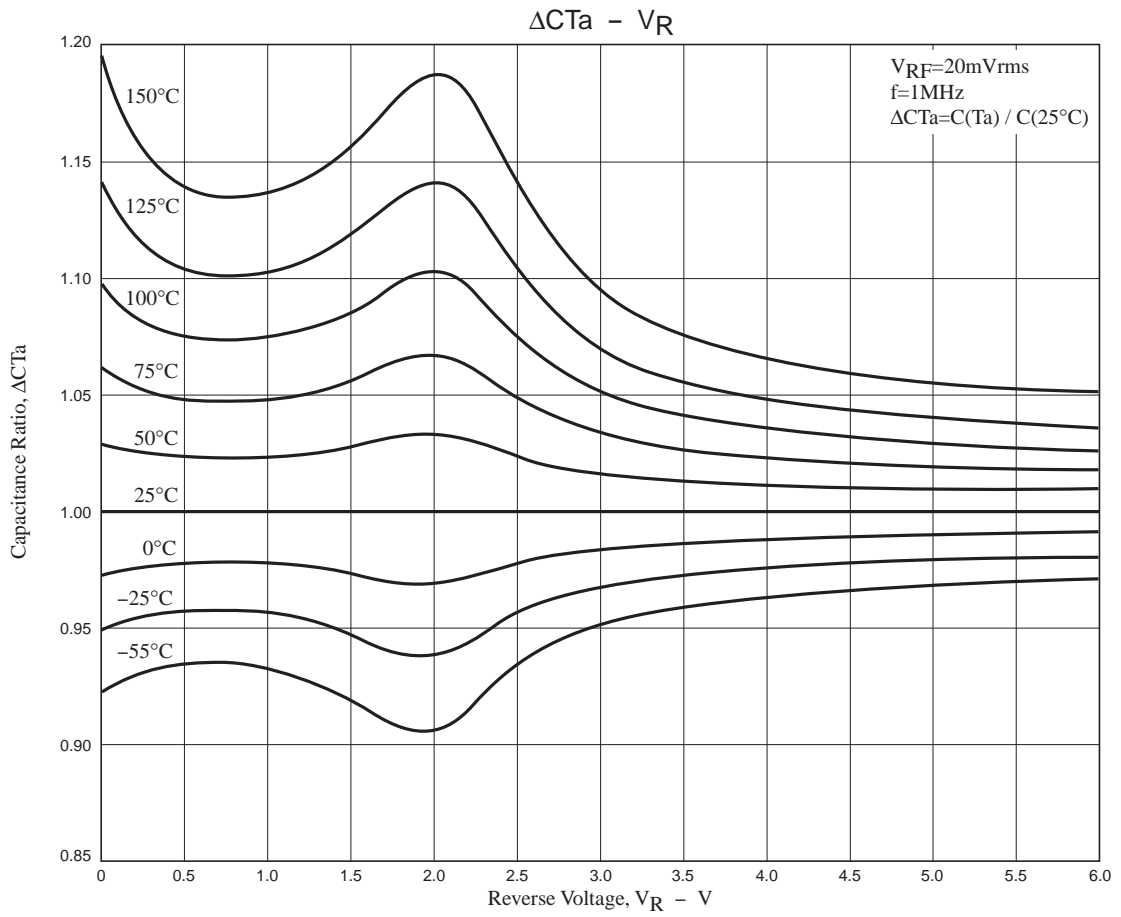
Ordering Information

Device	Package	Shipping	memo
SVC710-TL-E	MCPH3	3,000pcs./reel	Pb Free



IT11916

SVC710



Taping Specification

SVC710-TL-E

1. Packing Format

Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
MCPH3	MCPH3	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210

Reel label, Inner box label
(unit:mm)

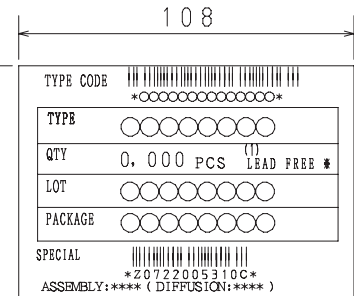
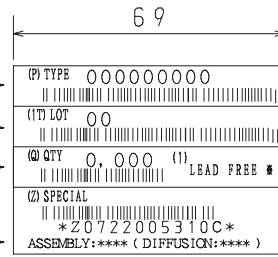
Outer box label
It is a label at the time of factory shipments.
The form of a label may change in physical distribution process.

Packing method



Type No.
LOT No.
Quantity
Origin

Reel label



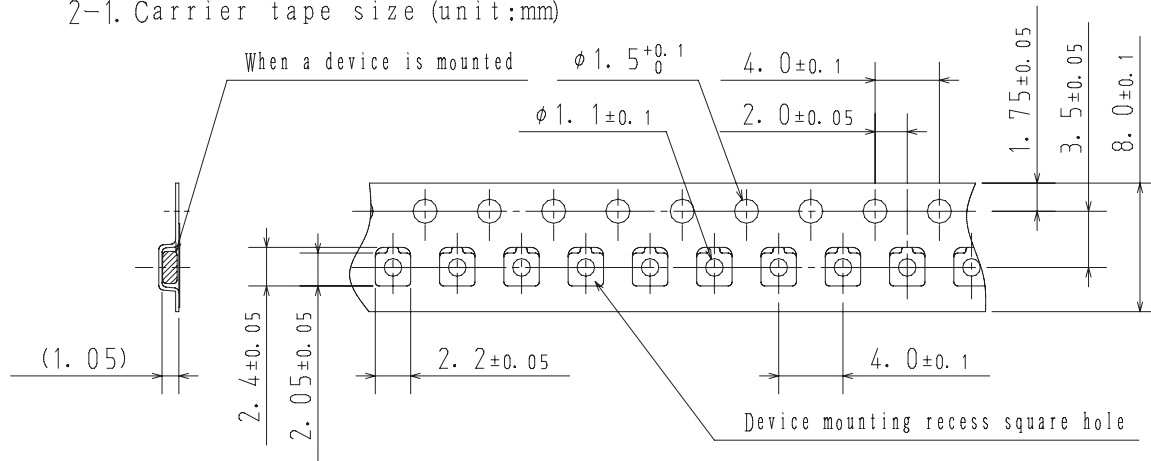
NOTE (1)

The LEAD FREE * description shows that the surface treatment of the terminal is lead free.

Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

2-1. Carrier tape size (unit:mm)



2-2. Device placement direction



Those with pin 1 index on the feed hole side.....TL

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Outline Drawing

SVC710-TL-E



Land Pattern Example



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