



SVC710 Silicon Diffused Junction Type Varactor Diode for AFC, VCO

Features

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

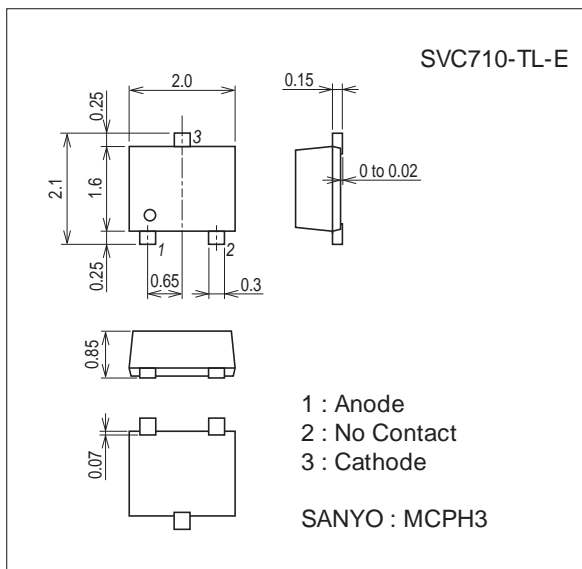
Specifications

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

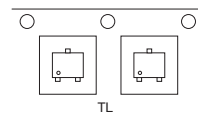
unit : mm (typ)
7019A-001



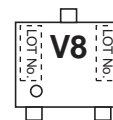
Product & Package Information

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

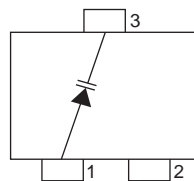
Packing Type : TL



Marking



Electrical Connection



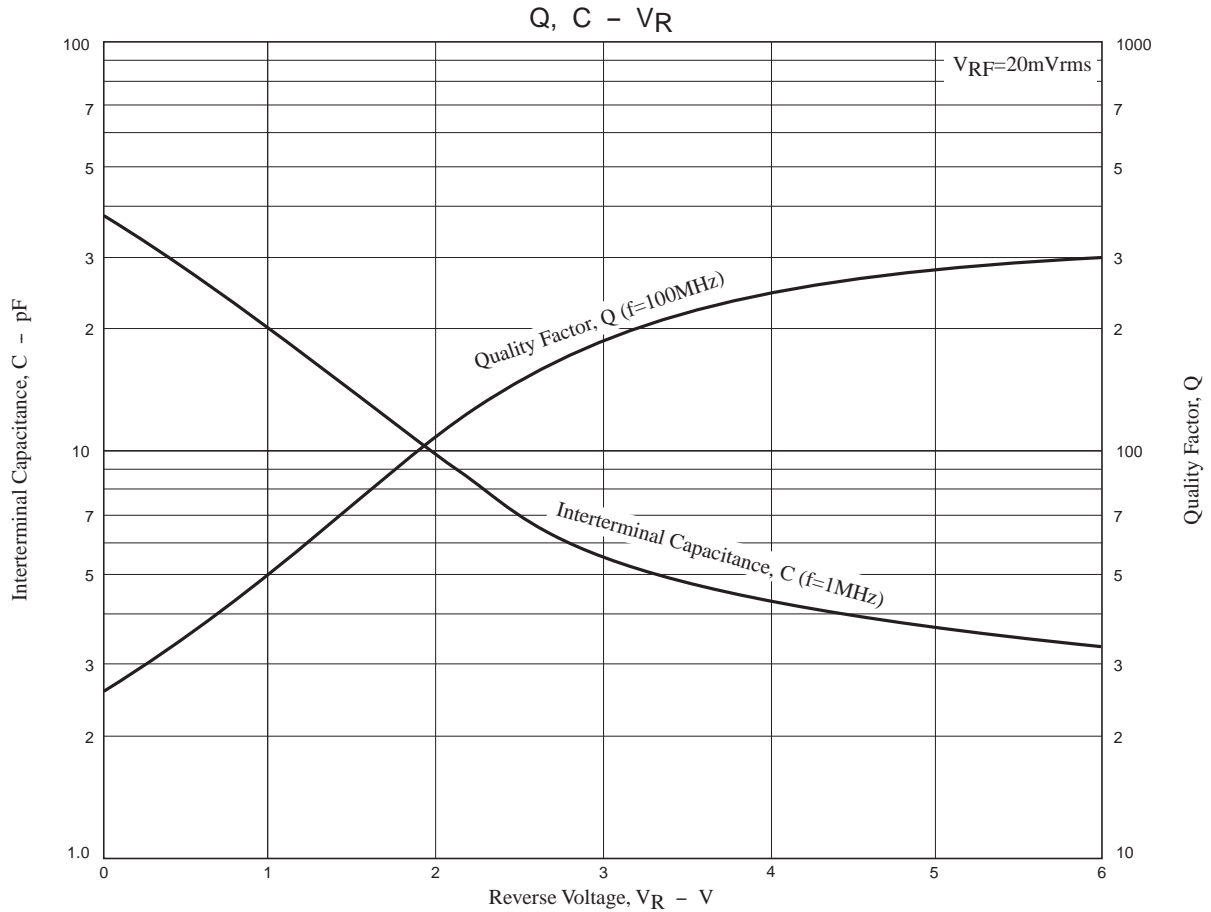
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Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	15			V
Reverse Current	I_R	$V_R=15\text{V}$			20	nA
Interterminal Capacitance*	$C_{1.0\text{V}}$	$V_R=1.0\text{V}, f=1\text{MHz}$	18.5		21.5	pF
	$C_{4.0\text{V}}$	$V_R=4.0\text{V}, f=1\text{MHz}$	3.5		4.8	pF
Series Resistance	r_s	$V_R=1.0\text{V}, f=100\text{MHz}$		1.6		Ω
Capacitance Ratio	C_R	$C_{1.0\text{V}} / C_{4.0\text{V}}$		4.8		

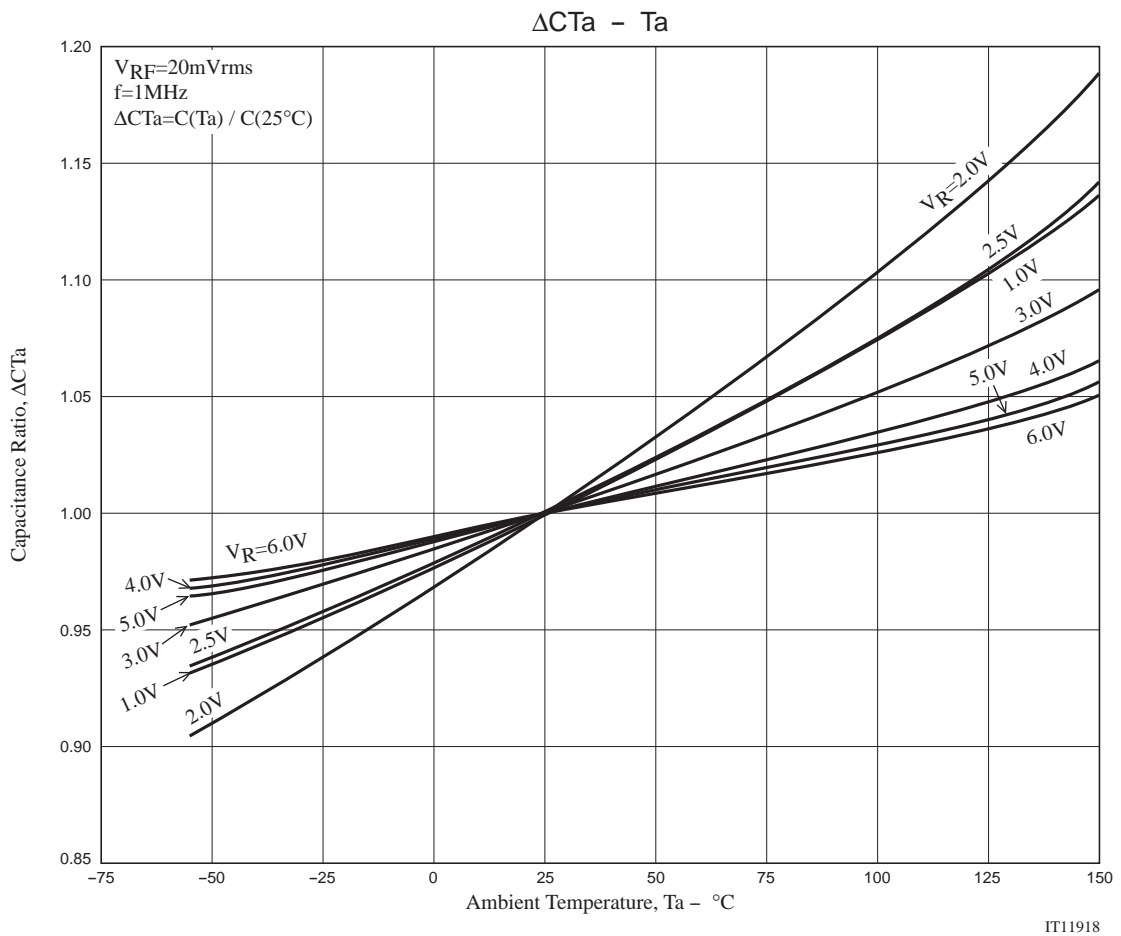
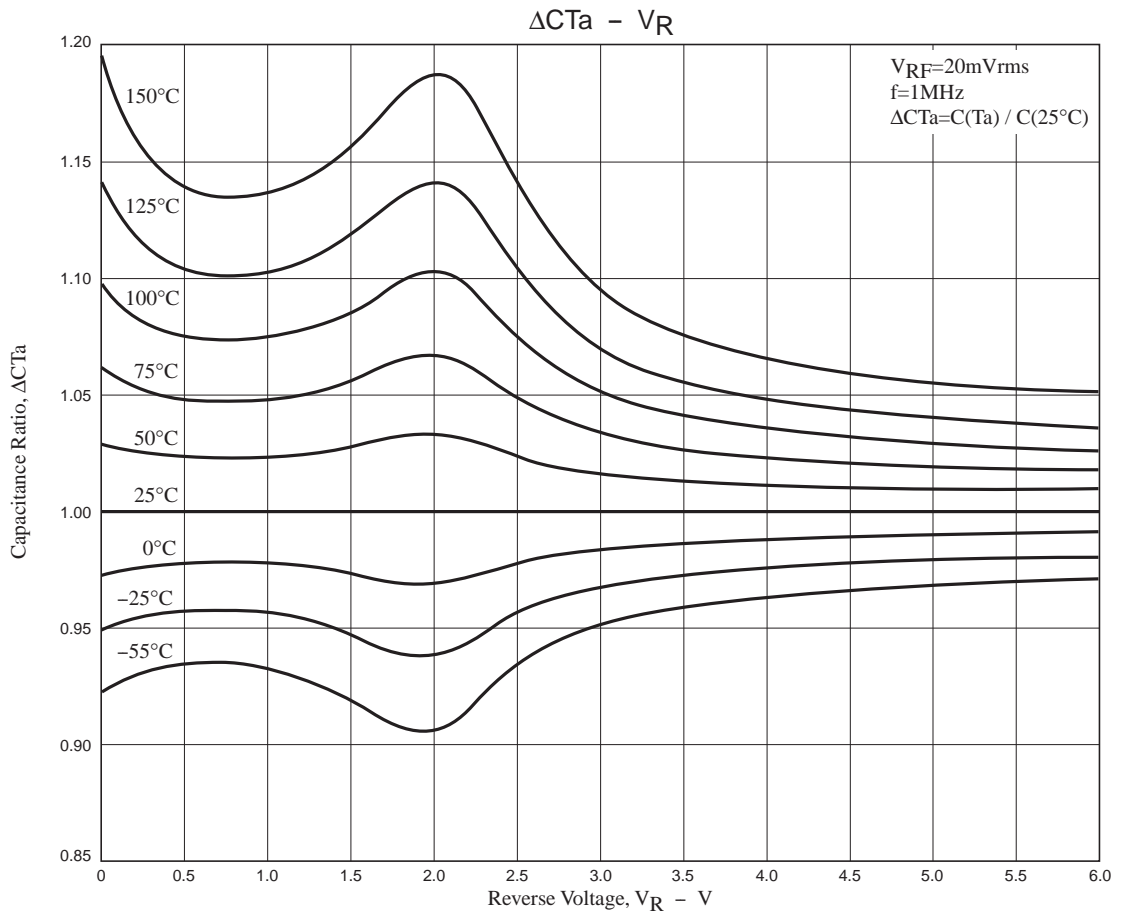
Ordering Information

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



IT11916

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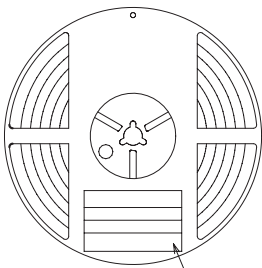
Taping Specification

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

Packing method

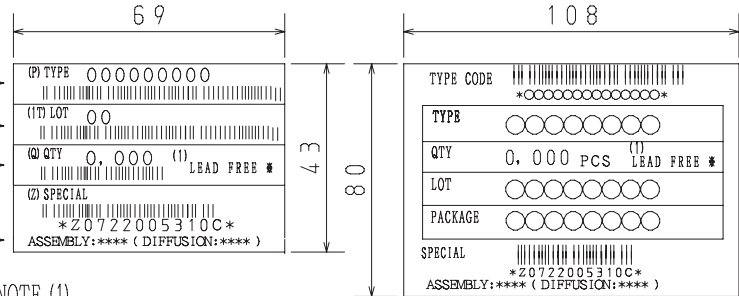


Type No.
LOT No.
Quantity
Origin

Reel label

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.



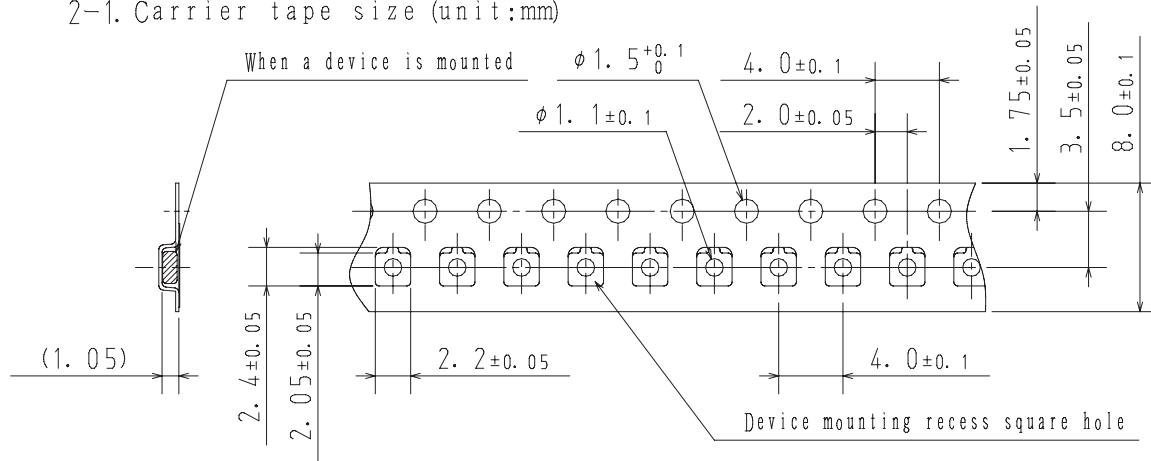
NOTE (1)

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

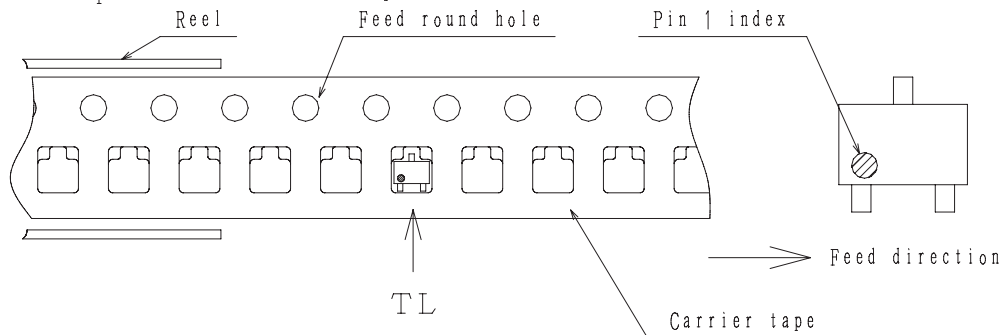
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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



2-2. Device placement direction

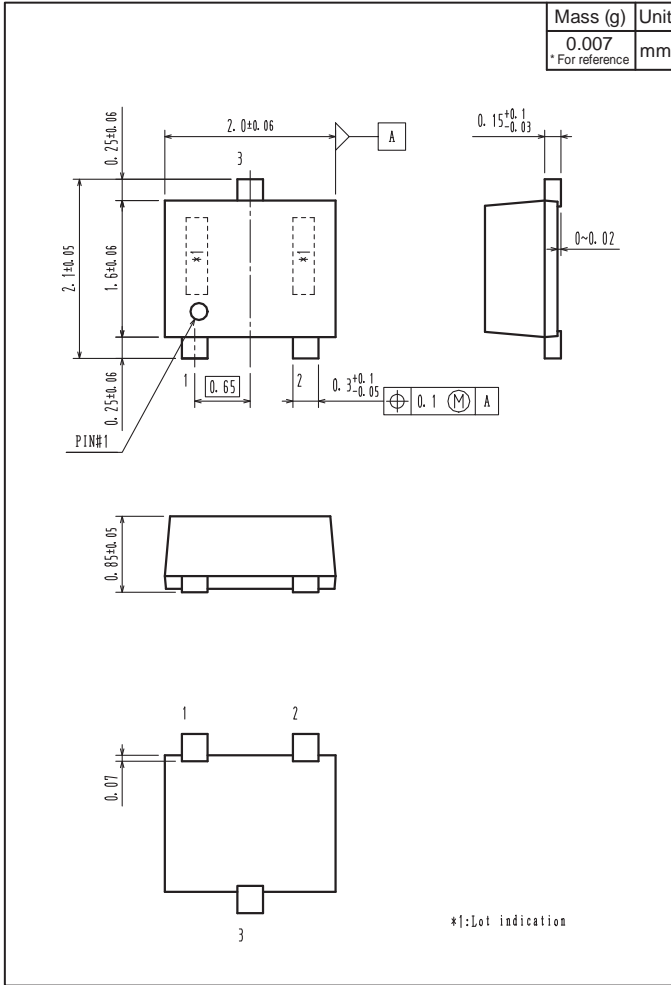


Those with pin 1 index on the feed hole side.....TL

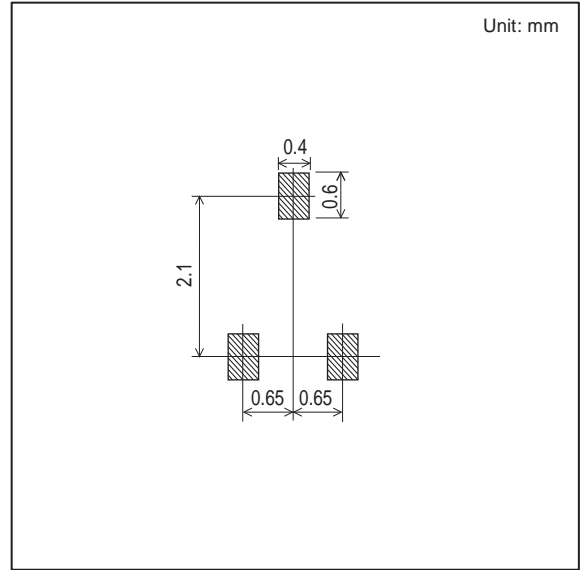
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Outline Drawing

SVC710-TL-E



Land Pattern Example



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