



SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

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

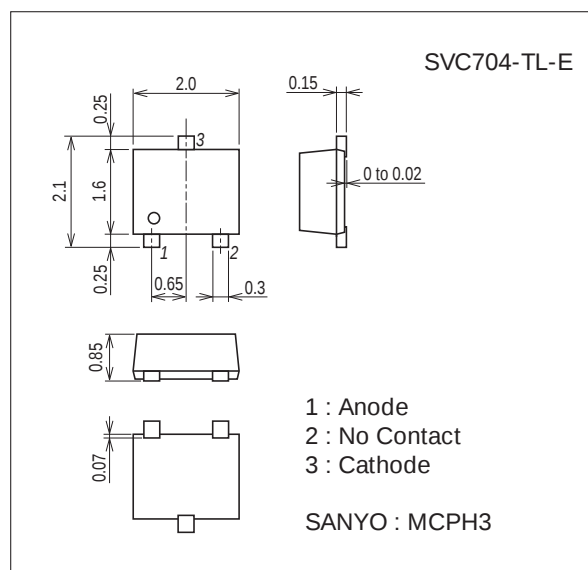
Absolute Maximum Ratings at $T_a=25^\circ C$

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	$^\circ C$

Package Dimensions

unit : mm (typ)

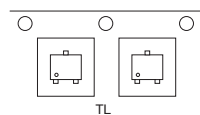
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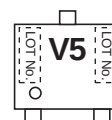
Product & Package Information

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

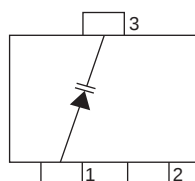
Packing Type : TL



Marking



Electrical Connection



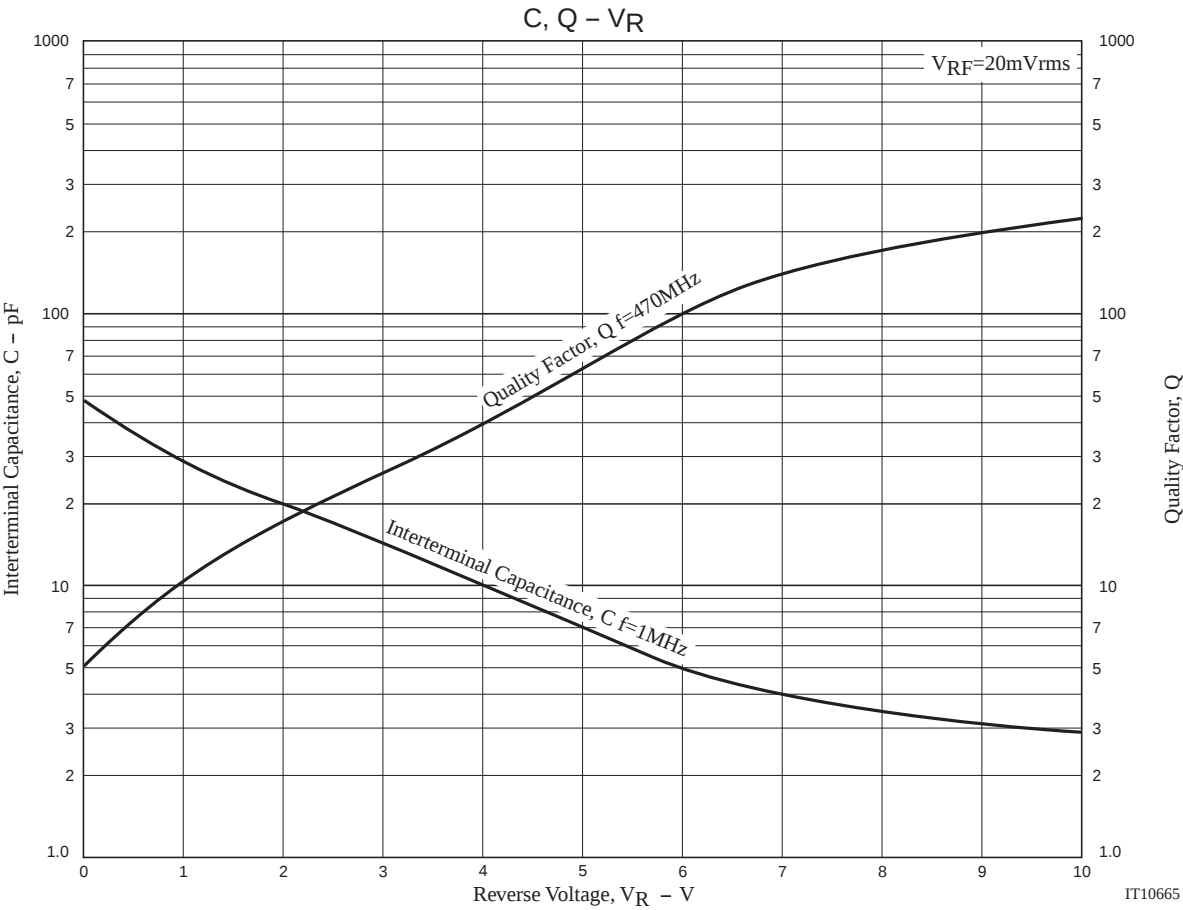
SVC704

Electrical Characteristics at Ta=25°C

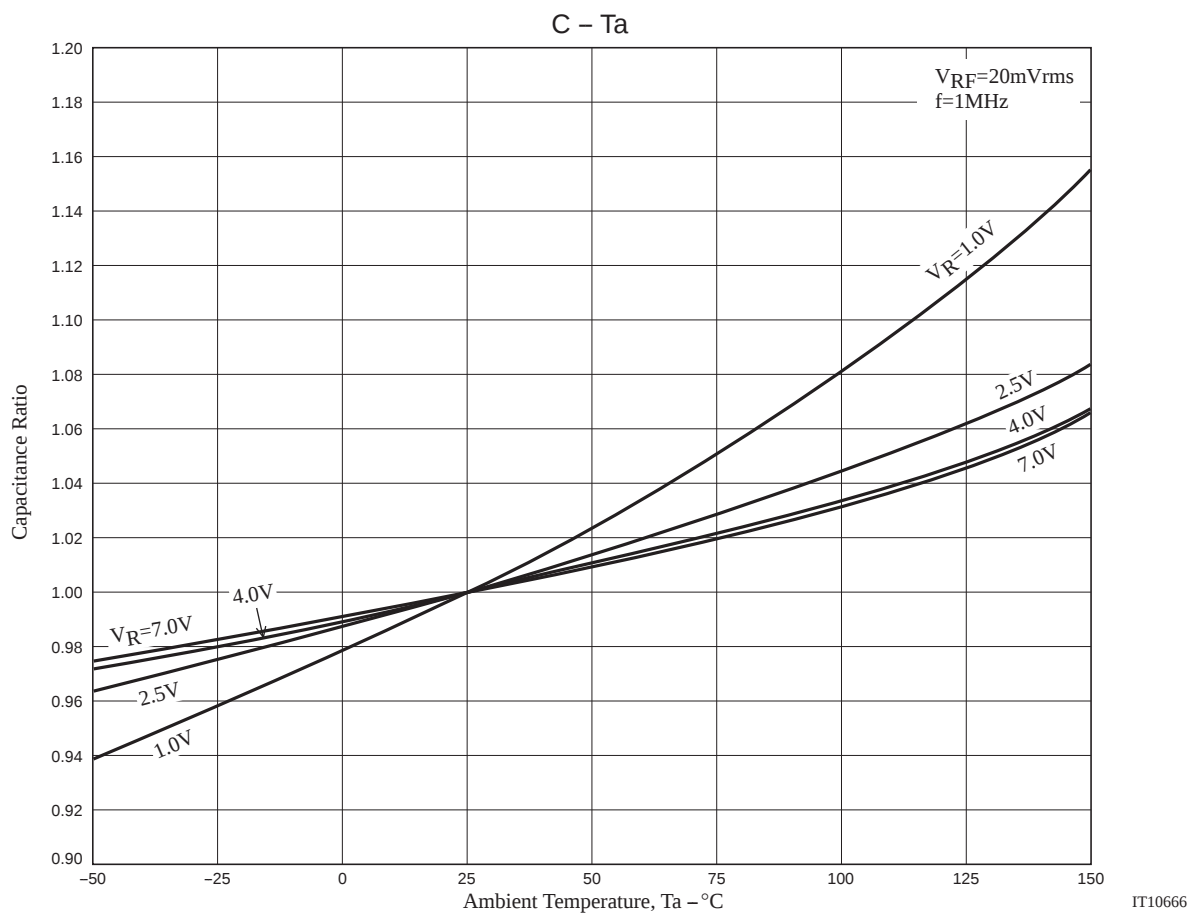
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	16			V
Reverse Current	I_R	$V_R=10V$			50	nA
Interterminal Capacitance*	C1.0V	$V_R=1.0V, f=1MHz$	26.0		30.0	pF
	C7.0V	$V_R=7.0V, f=1MHz$	3.4		4.6	pF
Series Resistance	r_s	$V_R=1.0V, f=470MHz$			0.8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

Ordering Information

Device	Package	Shipping	memo
SVC704-TL-E	MCPH3	3,000pcs./reel	Pb Free



SVC704



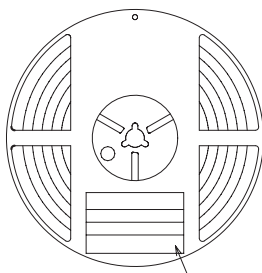
Taping Specification

SVC704-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



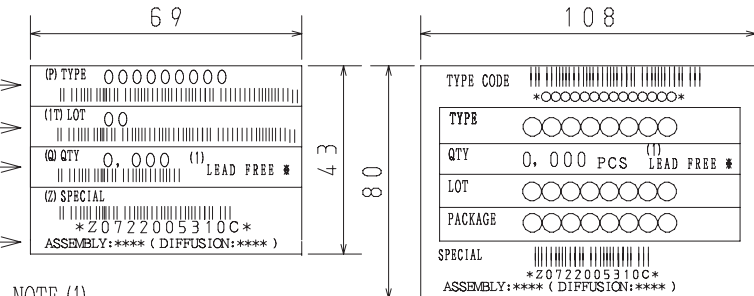
Reel label

Type No.
LOT No.
Quantity
Origin

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.



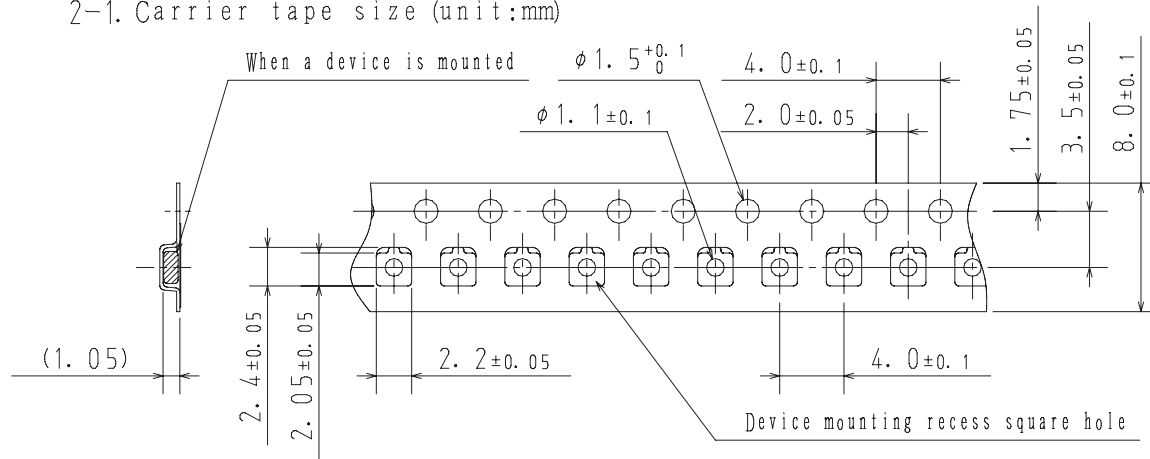
NOTE (1)

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

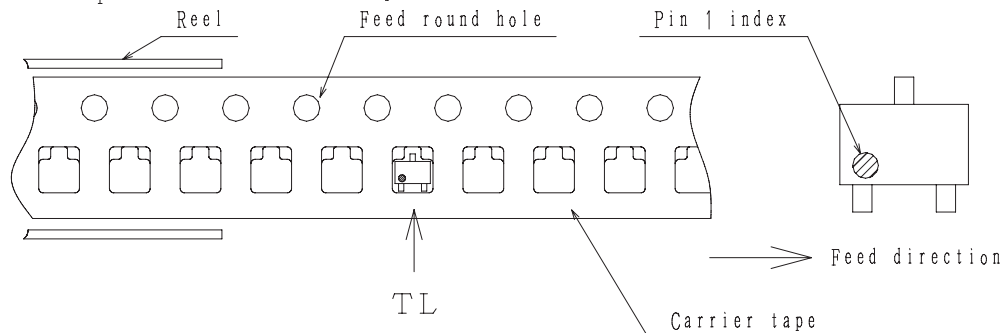
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

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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