



# SVC276 — Diffused Junction Type Silicon Diode

## FM Receiver Electronic Tuning Applications

### Features

- Twin type with a good linearity of C-V characteristic. Excels in large input characteristic
- Small package permits SVC276-applied sets to be compact and slim
- High capacitance ratio ( $V_R=2.0$  to  $8.0V$ )
- High Quality Factor

### Specifications

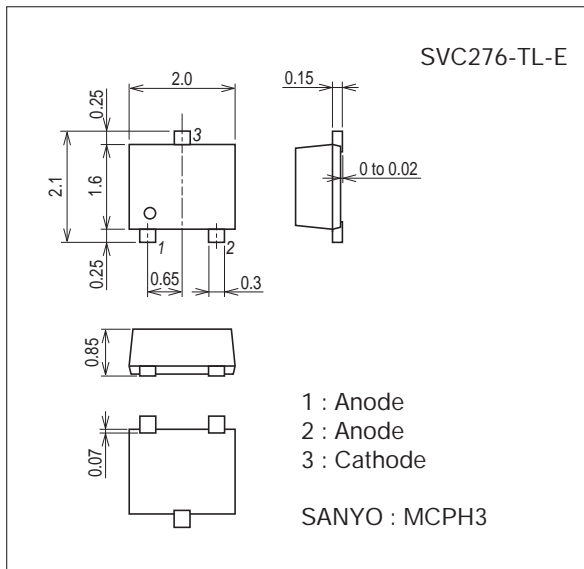
Absolute Maximum Ratings at  $T_a=25^\circ C$

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

### Package Dimensions

unit : mm (typ)

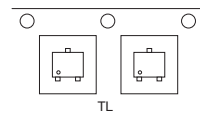
7019A-002



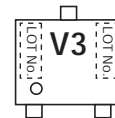
### Product & Package Information

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

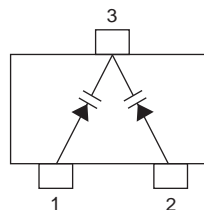
### Packing Type : TL



### Marking



### Electrical Connection



# SVC276

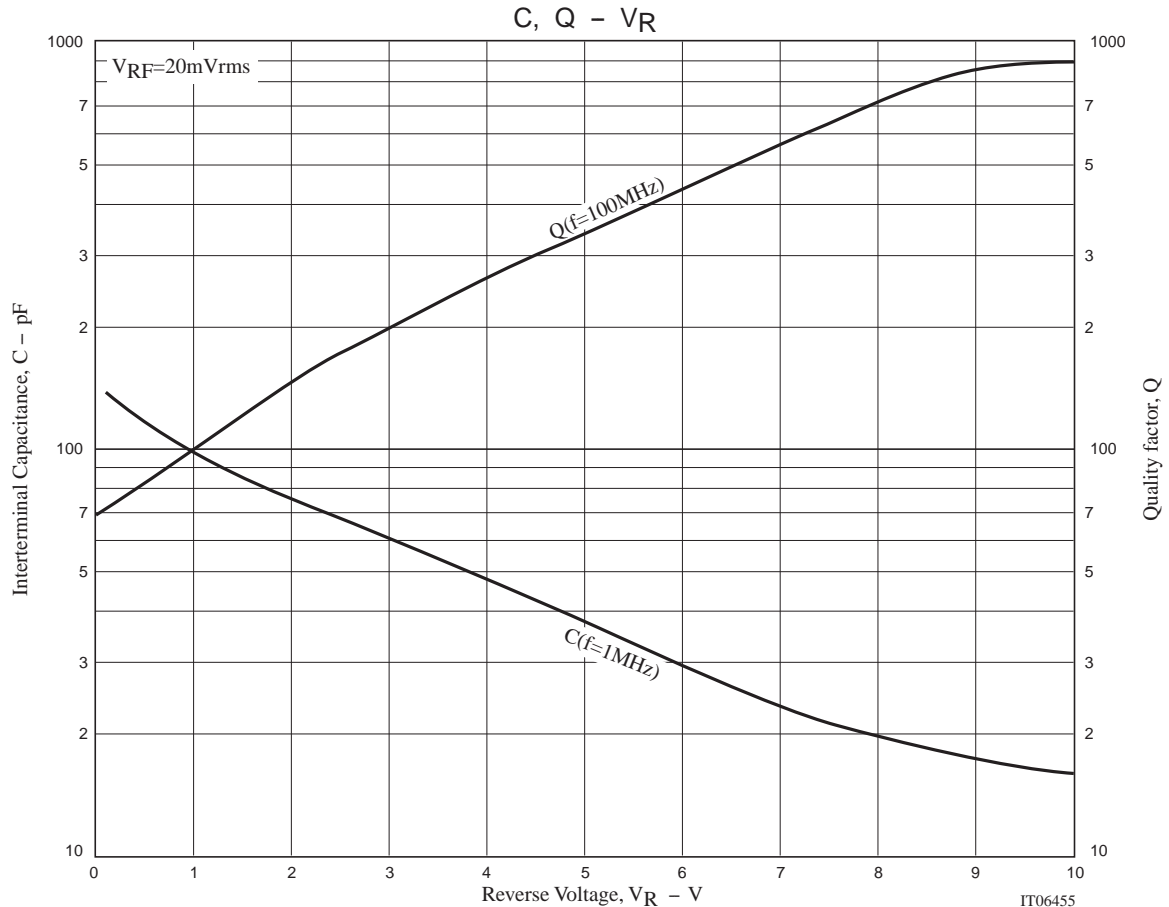
## Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	V(BR)R	I <sub>R</sub> =10μA	16			V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =10V			50	nA
Interterminal Capacitance*	C2.0V	V <sub>R</sub> =2.0V, f=1MHz	73.72		79.77	pF
	C6.0V	V <sub>R</sub> =6.0V, f=1MHz	25.50		33.61	pF
	C8.0V	V <sub>R</sub> =8.0V, f=1MHz	18.04		23.78	pF
Quality Factor	Q	V <sub>R</sub> =2.0V, f=100MHz	100			
Capacitance Ratio	C <sub>R</sub>	C2.0V / C8.0V	3.1			

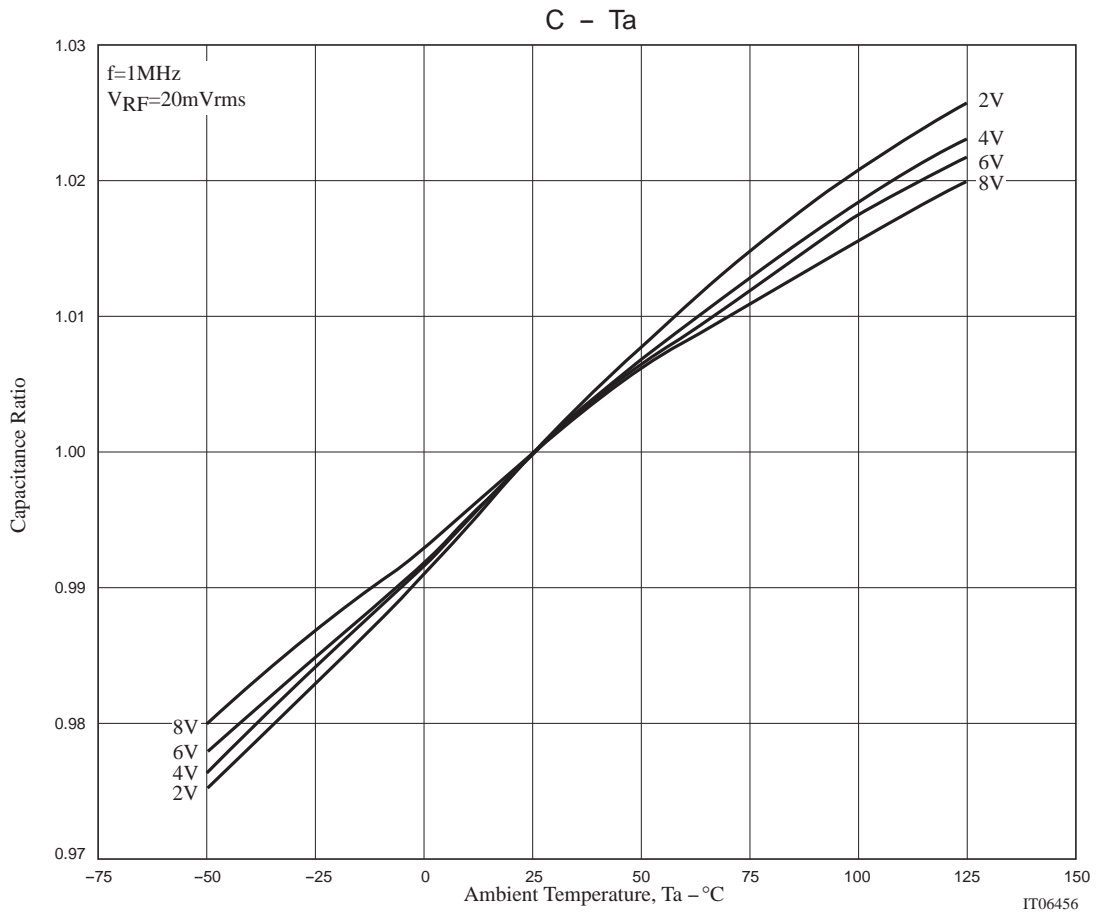
Note)\* : Capacitance value per each diode

## Ordering Information

Device	Package	Shipping	memo
SVC276-TL-E	MCPH3	3,000pcs./reel	Pb Free



# SVC276



Taping Specification

SVC276-TL-E

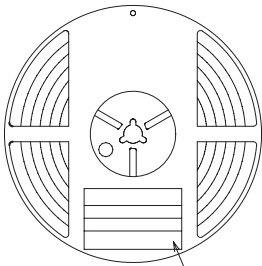
1. Packing Format

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)

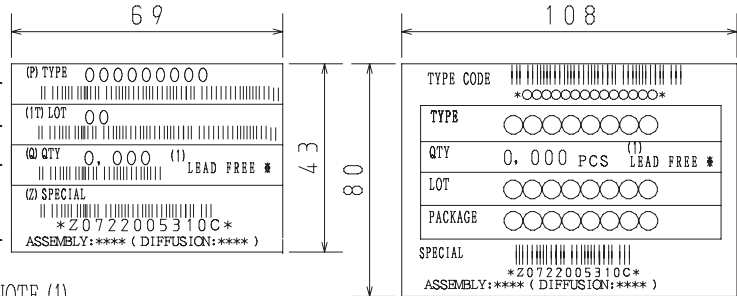
Outer box label  
It is a label at the time of factory shipments.  
The form of a label may change in physical distribution process.

Packing method



Type No.  
LOT No.  
Quantity  
Origin

Reel label



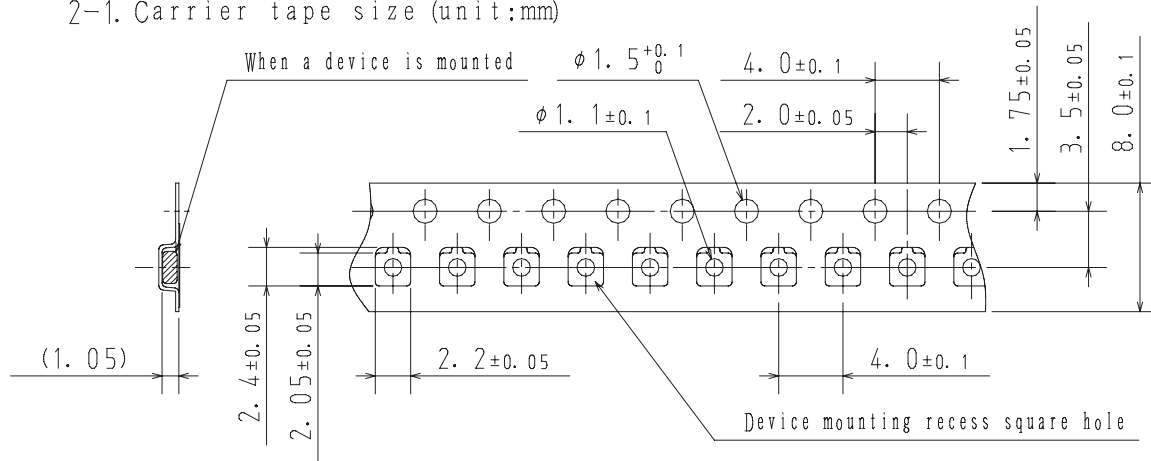
NOTE (1)

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

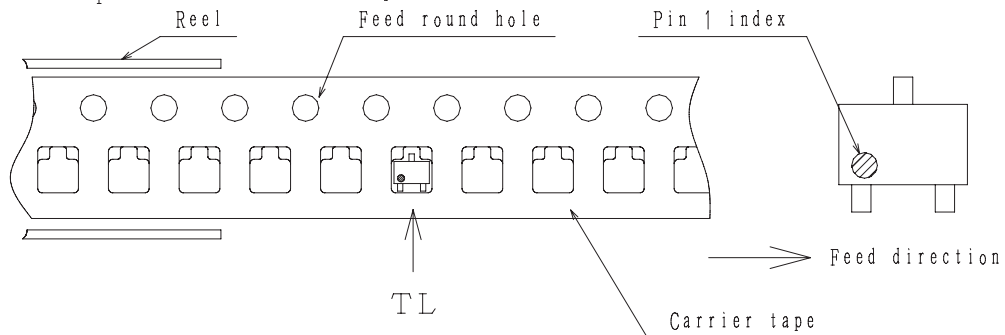
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

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

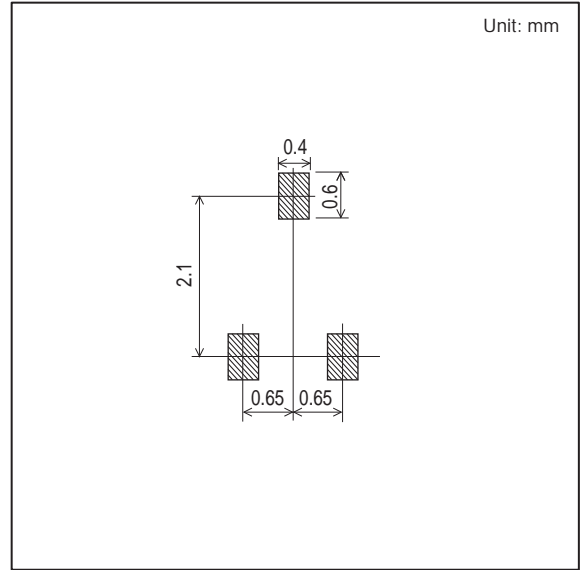
# SVC276

## Outline Drawing

SVC276-TL-E



## Land Pattern Example



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