

SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

SVC276 — Diffused Junction Type Silicon Diode EM Possiver Floatronic Tunio

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

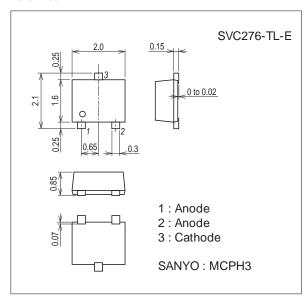
Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		16	V
Junction Temperature	Tj		125	C
Storage Temperature	Tstg		-55 to +125	C

Package Dimensions

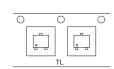
unit : mm (typ) 7019A-002



Product & Package Information

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

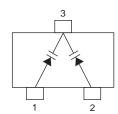
Packing Type: TL



Marking



Electrical Connection



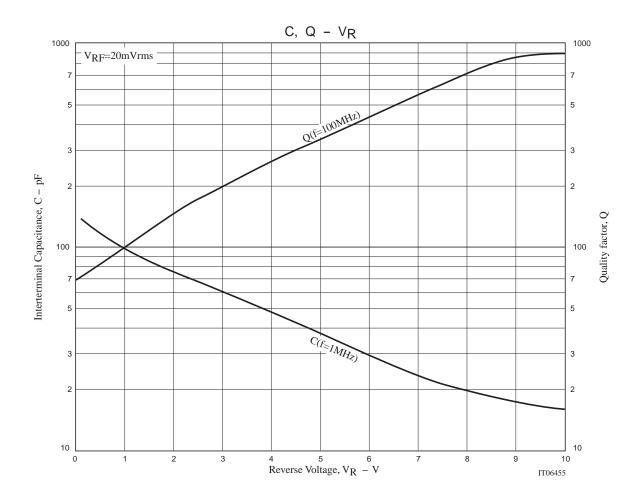
Electrical Characteristics at Ta=25°C

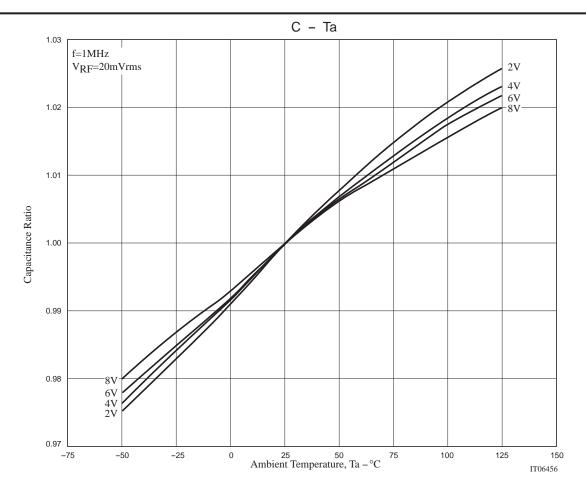
Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	UIII
Breakdown Voltage	V(BR)R	I _R =10μA	16			V
Reverse Current	IR	V _R =10V			50	nA
Interterminal Capacitance*	C2.0V	V _R =2.0V, f=1MHz	73.72		79.77	pF
	C6.0V	V _R =6.0V, f=1MHz	25.50		33.61	pF
	C8.0V	V _R =8.0V, f=1MHz	18.04		23.78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

Note)*: Capacitance value per each diode

Ordering Information

Device	Package	Shipping	memo	
SVC276-TL-E	VC276-TL-E MCPH3		Pb Free	



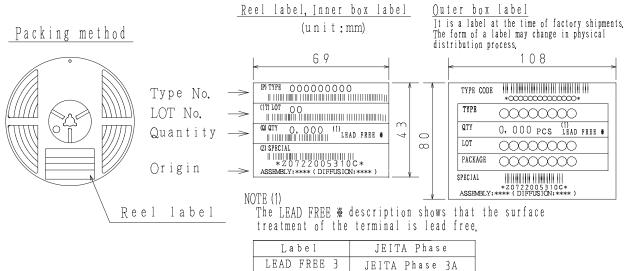


Taping Specification

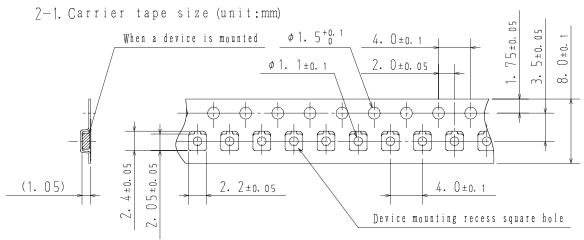
SVC276-TL-E

1. Packing Format

Package Name	Carrier Tape	Maximun Number of devices contained (pcs)			Packing	acking format		
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)		
мсрн3	мсрн3	3,000	15, 000	90,000	5 reels contained	6 inner boxes contained		
					Dimensions:mm (external)	Dimensions:mm (external)		
					183×72×185	440×195×210		

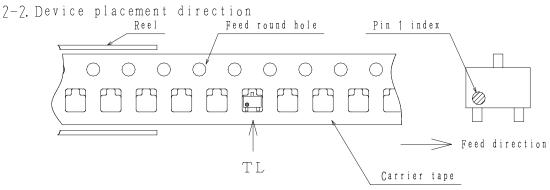


2. Taping configuration



LEAD FREE 4

JEITA Phase 3



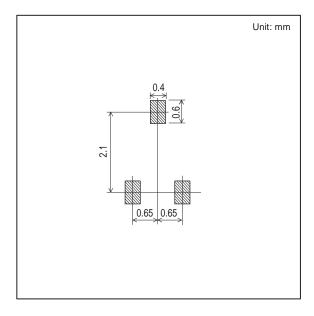
Those with pin 1 index on the feed hole side·····TL

Outline Drawing

SVC276-TL-E

Mass (g) Unit 0.007 For reference mm 2.0±0.06 3 2.0±0.06 1.0±0.06 2.0±0.06 2.0±0.06 3.0±0.06 2.0±0.06 3.0±0.06 4.1:Let indication

Land Pattern Example



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