

SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

SVC270 — Varactor Diode for FM Receiver Electronic Tuning Applications

Features

- · Twin type varactor diode having an excellent large input characteristic, for use in FM electronic tuning applications
- · Small MCPH package permits SVC270-applied sets to be compact and slim
- · Possible to be shipped in tape reel packaging, which facilitates automatic insertion
- · High Q

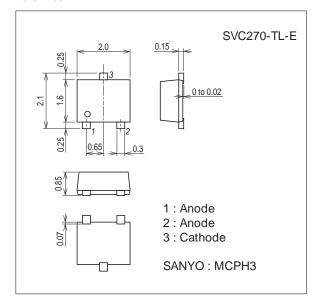
Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		16	V
Junction Temperature	Tj		150	C
Storage Temperature	Tstg		-55 to +150	C

Package Dimensions

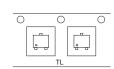
unit : mm (typ) 7019A-002



Product & Package Information

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

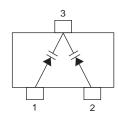
Packing Type: TL



Marking



Electrical Connection



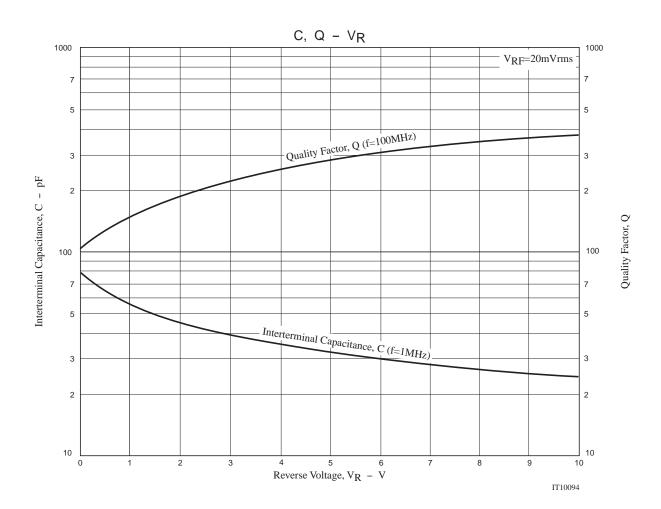
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Syllibol	Conditions	min	typ	max	Uill
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	44.0		46.5	pF
	C8.0V	V _R =8.0V, f=1MHz	25.1		28.2	pF
Quality Factor	Q	V _R =3.0V, f=100MHz	100			
Capacitance Ratio	CR	C2.0V / C8.0V	1.65		1.75	
Matching Tolerance*2	ΔCm	V _R =2.0V, f=1MHz (CmaxCmin) / Cmin×100			2.5	%

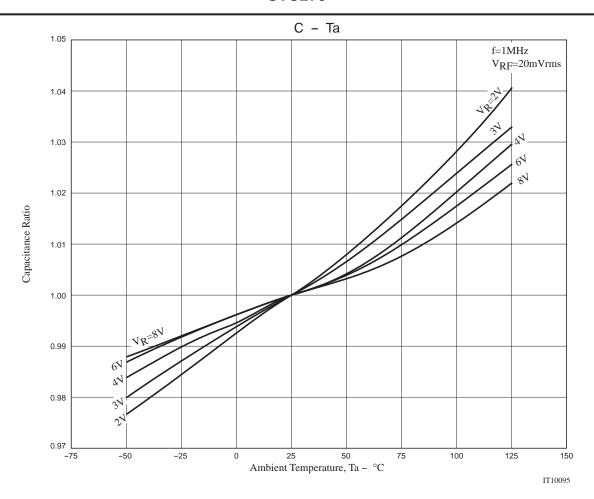
Note)*1 : Capacitance value per each diode.

Ordering Information

Device	Package	Shipping	memo	
SVC270-TL-E	VC270-TL-E MCPH3		Pb Free	



^{*2 :} Matching Tolerance is valid for the devices in one taping reel.

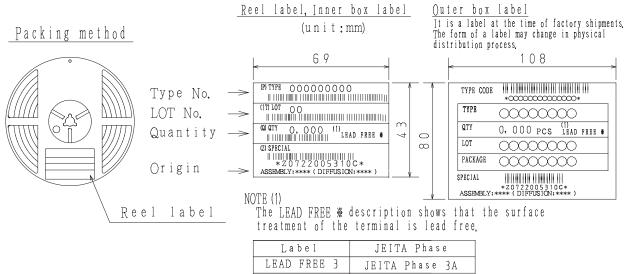


Taping Specification

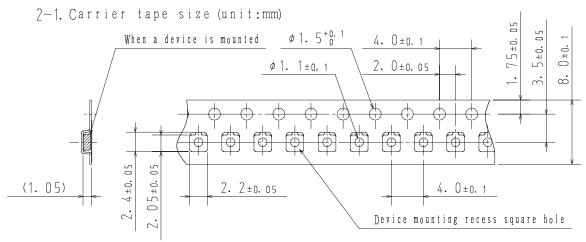
SVC270-TL-E

1. Packing Format

Package Name	Carrier Tape	Maximun Number of devices contained (pcs)			Packing	ing 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		

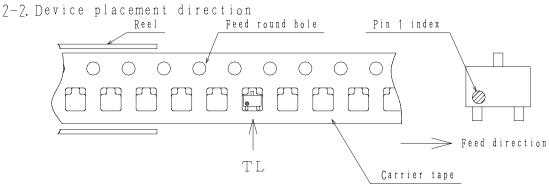


2. Taping configuration



LEAD FREE 4

JEITA Phase 3



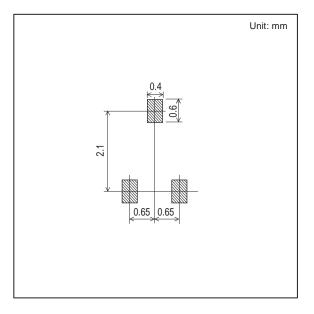
Those with pin 1 index on the feed hole side·····TL

Outline Drawing

SVC270-TL-E

Mass (g) Unit 0.007 For reference mm 2.048.06 A 15^{48.1} 2.048.06 A 2.048.06 A 3.348.15 PINH1 2.048.06 3.348.15 PINH1 3.348.15 3.348.15 4.15.101 indication

Land Pattern Example



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