

SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

SVC270

Diffused Junction Type Silicon Diode 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

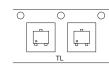
unit : mm (typ) 7019A-002

Product & Package Information : MCPH3

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

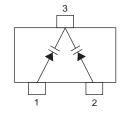
Packing Type : TL

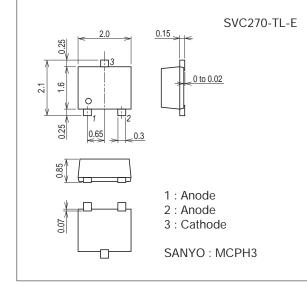
Marking





Electrical Connection





SANYO Semiconductor Co., Ltd. http://semicon.sanyo.com/en/network

Electrical Characteristics at Ta=25°C

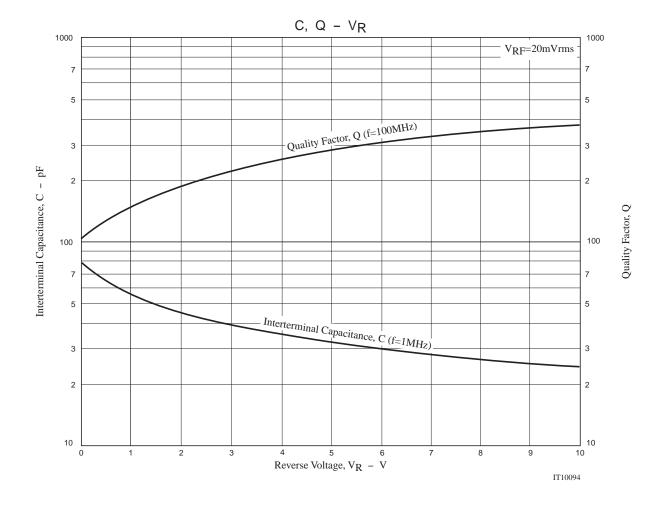
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol	Conditions	min	typ	max	Unit
Breakdown Voltage	V(BR)R	I _R =10μA	16			V
Reverse Current	IR	V _R =10V			50	nA
Interterminal Conceitance*	C2.0V	V _R =2.0V, f=1MHz	44.0		46.5	pF
Interterminal Capacitance*	C8.0V	V _R =8.0V, f=1MHz	25.1		28.2	pF
Quality Factor	Q	VR=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	%

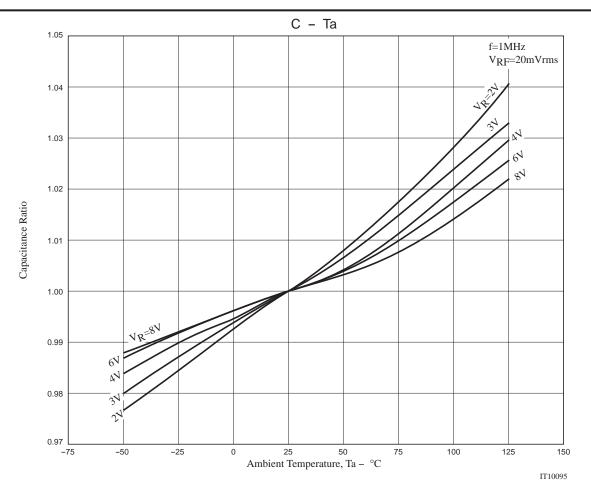
Note)*1 : Capacitance value per each diode.

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

Ordering Information

0			
Device	Package	Shipping	memo
SVC270-TL-E	MCPH3	3,000pcs./reel	Pb Free





Taping Specification SVC270-TL-E

1. Packing Format

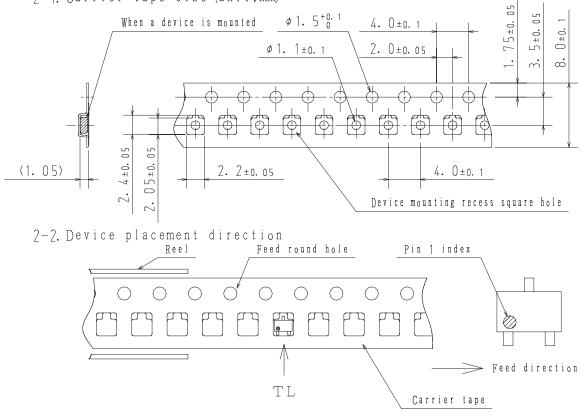
Package Name	Carrier Tape Maximun Number of devices contained (pcs)			Packing format		
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1) Outer BOX (A-7)	
МСРНЗ	МСРНЗ	3,000	15,000	90,000	5 reels contained 6 inner boxes contained	
	_				Dimensions:mm (external) Dimensions:mm (external)	
					183×72×185 440×195×210	
Packing method (unit: inin) The form of a label may change in phys					n i t :mm) It is a label at the time of factory shipments. The form of a label may change in physical distribution process.	
0	<		<	ť	<u>59</u> <u>108</u>	
Type No LOT No.			\rightarrow		00000	
			_> "	n lot 00		
Tig mm	///// Quan	tìty	(Q)	QTY O, OC		
			(Z)	SPECIAL		
	Orig	i n		*207221		
Reel label The LEAD FREE & description shows that the surface						
					treatment of the terminal is lead free.	
				ī, a b e l		
				LEAD FRE		

LEAD FREE 4

JEITA Phase 3

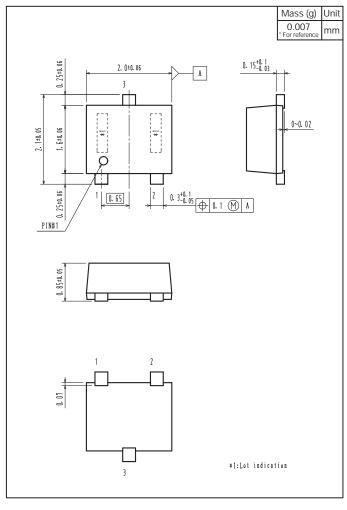
2. Taping configuration

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

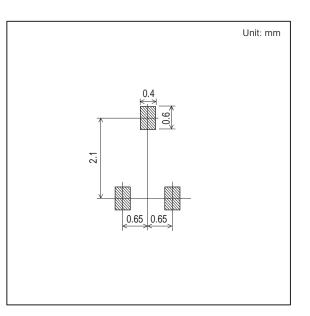


Those with pin 1 index on the feed hole side $\cdots \cdots TL$

Outline Drawing SVC270-TL-E



Land Pattern Example



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