

SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

Silicon Diffused Junction Type Varactor Diode **FM Receiver Electronic Tuning Applications**

Features

- · Twin type varactor diode with good large-signal characteristics for FM receiver electronic tuning use
- Small package permits SVC272-applied sets to be compact and slim
- · Can be also provieded in tape reel package thereby automatic insertion is supported
- High Quality Factor

SVC272 -

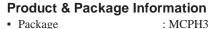
Specifications

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

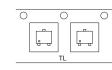
unit : mm (typ) 7019A-002



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

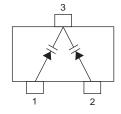
Packing Type : TL

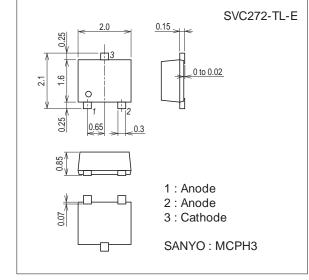
Marking





Electrical Connection





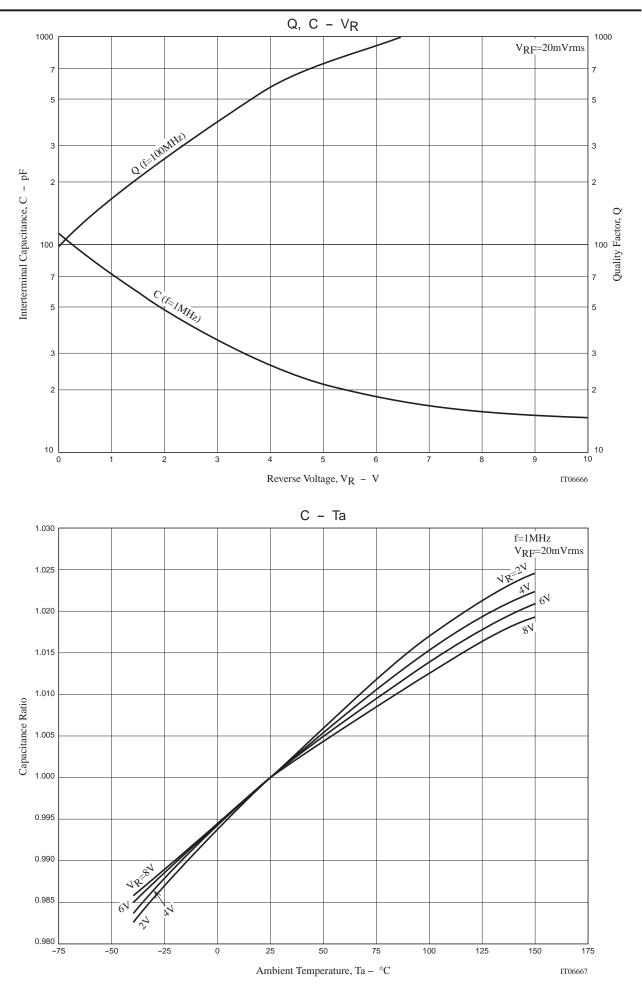
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions		Unit			
Falanielei	Symbol	Conditions	min	typ	max	Unit	
Breakdown Voltage	V(BR)R	I _R =10μA	14			V	
Reverse Current	IR	V _R =10V			50	nA	
Interterminal Conseitance*	C2.0V	V _R =2.0V, f=1MHz	44.91		49.82	pF	
Interterminal Capacitance*	C8.0V	V _R =8.0V, f=1MHz	14.07		18.55	pF	
Quality Factor	Q	VR=2.0V, f=100MHz	150				
Capacitance Ratio	CR	C2.0V / C8.0V	2.3				
Matching Tolerance	∆Cm	V _R =2.0V, 8.0, f=1MHz (C max-C min) / C min×100			3.0	%	

Note)* : Capacitance value per each diode.

Ordering Information

Device	Device Package		memo		
SVC272-TL-E MCPH3		3,000pcs./reel	Pb Free		



Taping Specification SVC272-TL-E

1. Packing Format

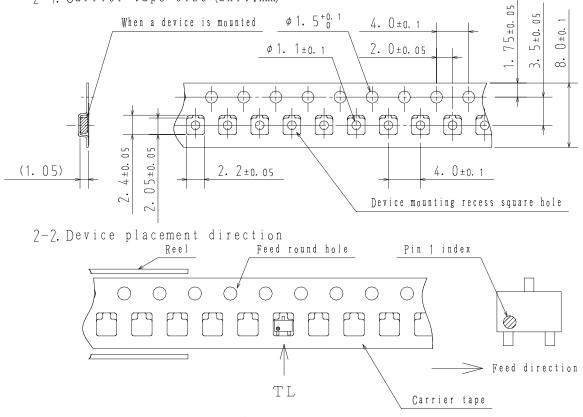
Package Name	Carrier Tape	Maximun Number of devices contained (pcs)			Packing format				
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)		(C-1)	Outer BOX (A-7)	
MCPH3	3 MCPH3 3,(15,000	90,000	5 reels contained		e d	6 inner boxes contained	
					Dimensions:mm (external)		(external)	Dimensions:mm (external)	
					18	$3 \times 72 \times$:185	440×195×210	
Packing met	hod			(u 1	nit:n	nm)	The fo	a label at the time of factory shipments. rm of a label may change in physical bution process.	
°	>		<	ť	59	~~>	<	108	
	Type LOT Quan Orig Reel la	No. tity in		IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1000000000000000000000000000000000000	AD FREE # C * N:****) descriptio terminal	n shows t is lead f	TYPE CODE IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
				Label			Phase		
				LEAD FRE	EE 3	JEITA H	hase 3A		

LEAD FREE 4

JEITA Phase 3

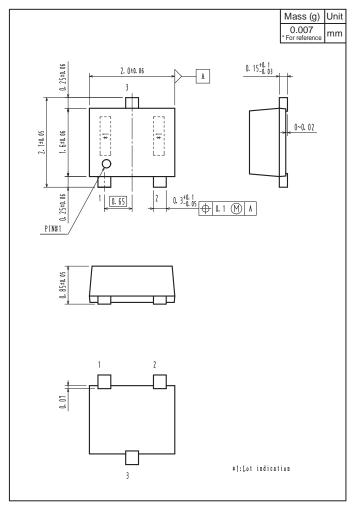
2. Taping configuration

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

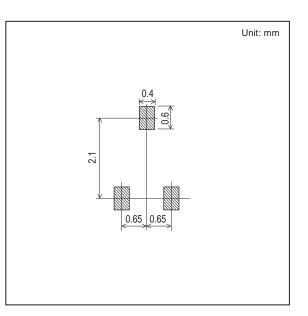


Those with pin 1 index on the feed hole side $\cdots \cdots TL$

Outline Drawing SVC272-TL-E



Land Pattern Example



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