imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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SVC272

Varactor Diode Monolithic dual Varactor Diode for FM Tunin 14V, 50nA, CR=2.3, Q=150, MCPH3



- · 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

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

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ) 7019A-002

Product & Package Information • Package : MCPH3

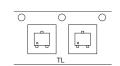
PackageJEITA, JEDEC

: SC-70, SOT-323

Marking

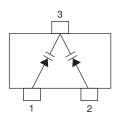
• Minimum Packing Quantity : 3,000 pcs./reel

Packing Type : TL





Electrical Connection



SVC272-TL-E

Semiconductor Components Industries, LLC, 2013 September, 2013



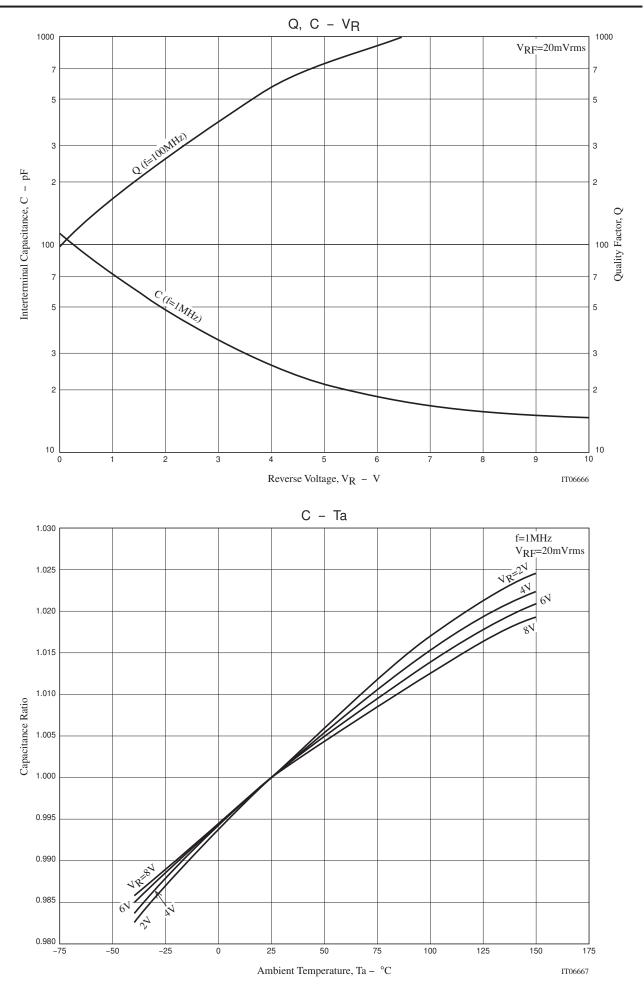
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions		Unit			
Falameter	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 Capacitance*	C2.0V	V _R =2.0V, f=1MHz	44.91		49.82	pF	
	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	ΔCm	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	Package	Shipping	memo		
Device	Fackage	Snipping	memo		
SVC272-TL-E	C272-TL-E MCPH3		Pb Free		



Taping Specification SVC272-TL-E

1. Packing Format

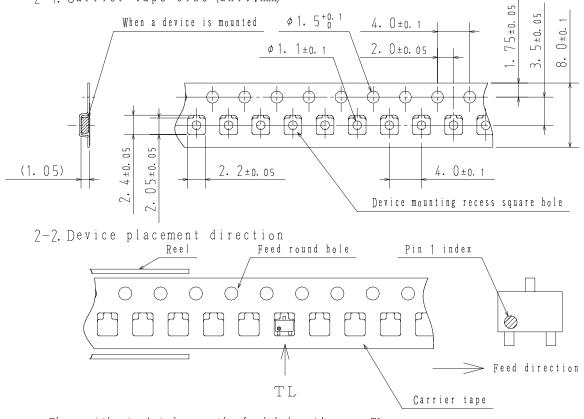
Package Name	Carrier Tape	Maximun Number of devices contained (pcs)			Packing format			
	Туре	Reel	Inner box	Outer box	In	ner BOX	(C-1)	Outer BOX (A-7)
MCPH3	МСРНЗ	3,000	15,000	90,000	5 ree	ls contain	e d	6 inner boxes contained
					Dimensions:mm (external)			Dimensions:mm (external)
					18	3×72×	:185	440×195×210
	Reel label, Inner box label Outer box label							
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

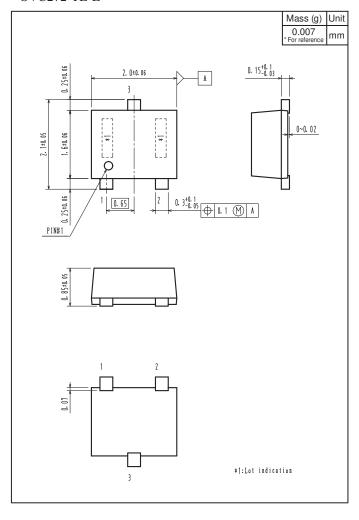
2. Taping configuration

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

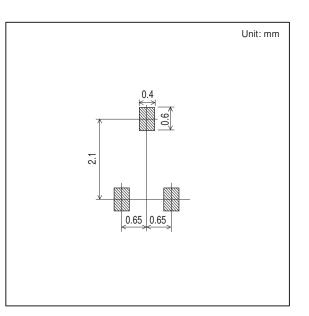


Those with pin 1 index on the feed hole side $\cdots \cdots TL$

Outline Drawing SVC272-TL-E



Land Pattern Example



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