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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SVC704

Varactor Diode Single Varactor Diode for VCO 16V, 50nA, CR=6.0, rs=0.8Ω, MCPH3

Features

- High capacitance ratio (VR=1.0 to 7.0V)
- Small-sized package
- Low series resistance

Specifications

Absolute Maximum Ratings at Ta=25°C

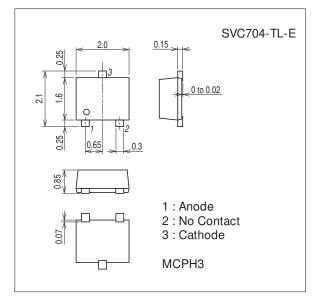
Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		16	V
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

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

Package Dimensions

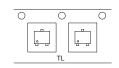
unit : mm (typ) 7019A-001



Product & Package Information

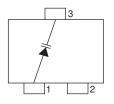
- : MCPH3
- JEITA, JEDEC : SC-70, SOT-323
- Minimum Packing Quantity : 3,000 pcs./reel

Packing Type : TL





Electrical Connection



ON Semiconductor®

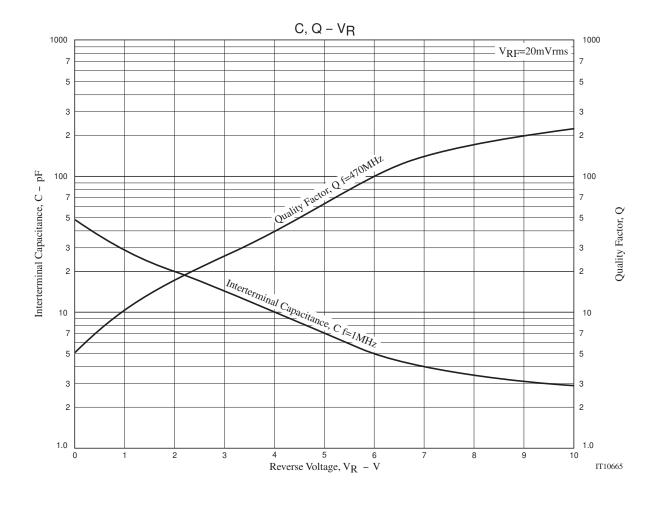
http://onsemi.com

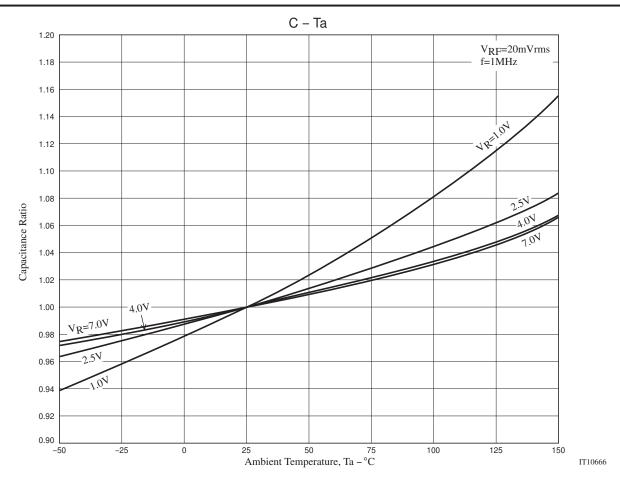
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions		Unit			
Faranieter	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 Capacitance*	C1.0V	V _R =1.0V, f=1MHz	26.0		30.0	pF	
	C7.0V	V _R =7.0V, f=1MHz	3.4		4.6	pF	
Series Resistance	r _S	VR=1.0V, f=470MHz			0.8	Ω	
Capacitance Ratio	CR	C1.0V / C7.0V	6.0				

Ordering Information

Device	Package	Shipping	memo		
SVC704-TL-E	C704-TL-E MCPH3		Pb Free		





Taping Specification SVC704-TL-E

1. Packing Format

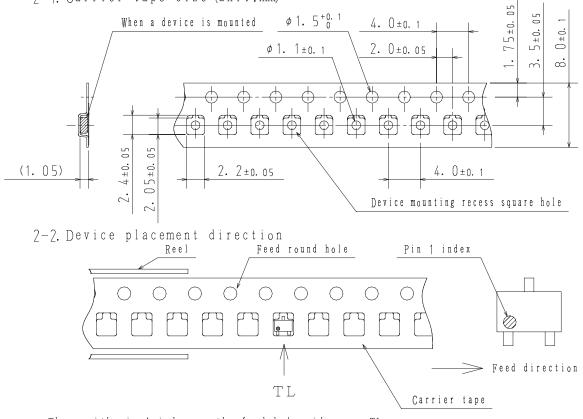
Package Name	Carrier Tape	Maximun Number of devices contained (pcs)			Packing format			
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)			Outer BOX (A-7)
MCPH3	MCPH3	3,000	15,000	90,000	5 ree	els containe	e d	6 inner boxes contained
					Dime	nsions:mm (external) Dimensions:mm (external)
					18	$3 \times 72 \times$	185	440×195×210
	<u>R</u> eel label, Inner box label <u>Outer box label</u>							
Packing met	thod			(u 1	nit:r	nm)	The fo	a label at the time of factory shipments, rm of a label may change in physical bution process.
0	>		<	ť	59	>	<	108
	Type LOT Quan	No. tity		TYPE O O O C II IIIII IIIIIIIIIIIIIIIIIIIIIIIIIIII		AD FREE * 7	08	TYPE CODE Image: Constraint of the second seco
	Orig	in	>A	SSEMBLY:**** (SPECIAL #20722005310C* ASSEMELY:**** (DIFFUSION:****)
Reel label NOTE (1) The LEAD FREE & description shows that the surface treatment of the terminal is lead free.								
				Label		JEITA	Phase	
				LEAD FRH	EE 3	JEITA P	hase 3A	

LEAD FREE 4

JEITA Phase 3

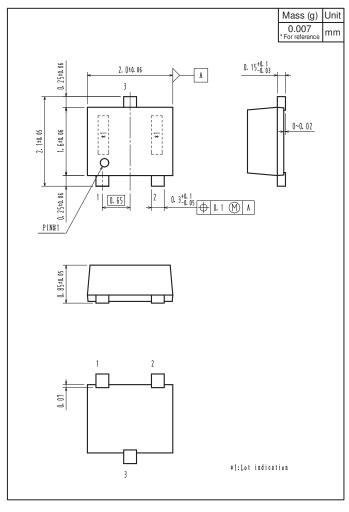
2. Taping configuration

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

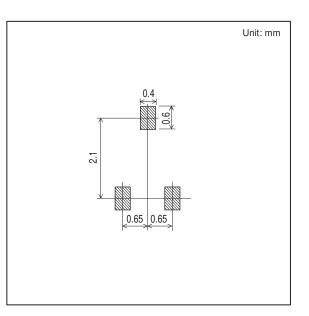


Those with pin 1 index on the feed hole side $\cdots \cdots TL$

Outline Drawing SVC704-TL-E



Land Pattern Example



SVC704

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