SVC704

ON Semiconductor®

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

Features

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

Specifications

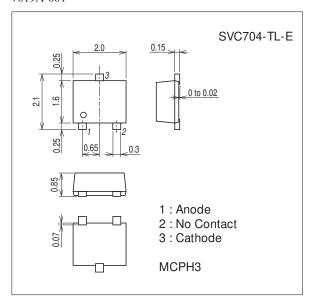
Absolute Maximum Ratings at Ta=25°C

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 Dimensions

unit : mm (typ) 7019A-001

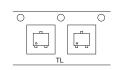


Product & Package Information

• Package : MCPH3

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

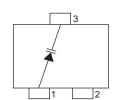
Packing Type: TL



Marking



Electrical Connection

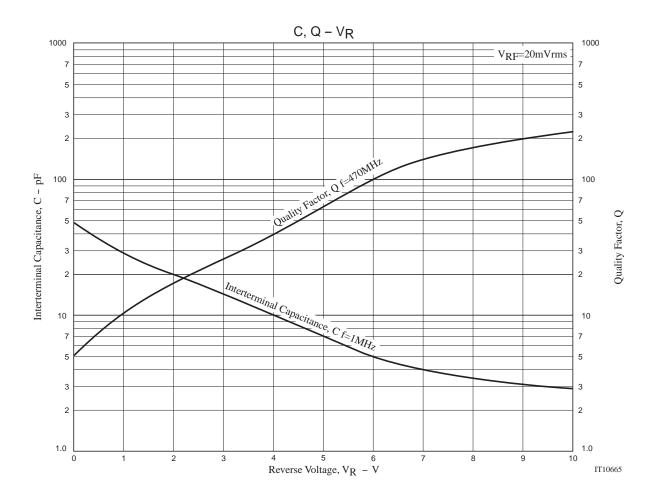


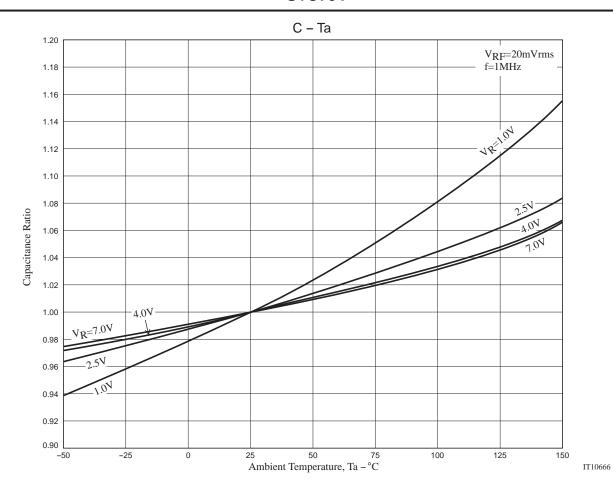
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
Farameter		Conditions	min	typ	max	UIIIL
Breakdown Voltage	V(BR)R	I _R =10μA	16			V
Reverse Current	everse Current I _R				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	рF
Series Resistance r _S		V _R =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	МСРН3	3,000pcs./reel	Pb Free	



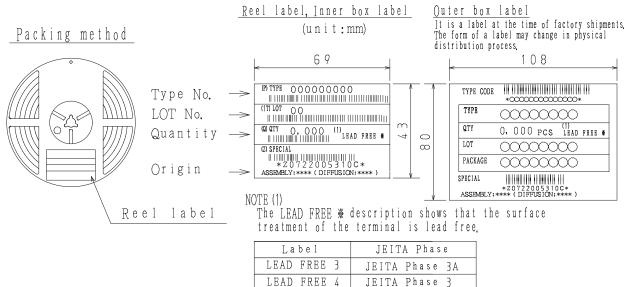


Taping Specification

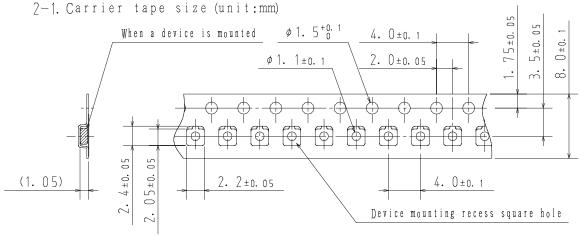
SVC704-TL-E

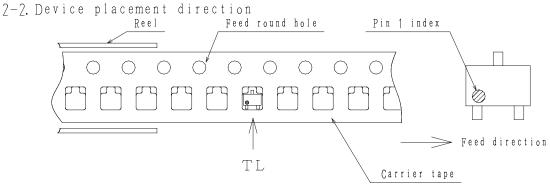
1. Packing Format

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)	
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

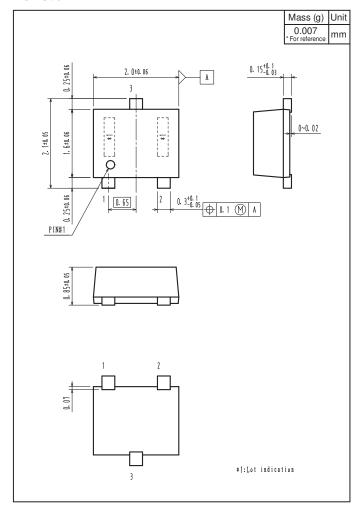




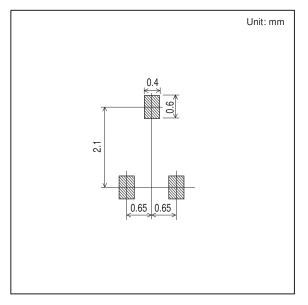
Those with pin 1 index on the feed hole side·····TL

Outline Drawing

SVC704-TL-E



Land Pattern Example



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