SVC272

ON Semiconductor®

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Varactor Diode

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

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

Specifications

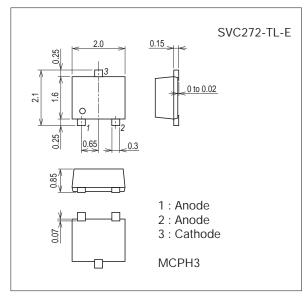
Absolute Maximum Ratings at Ta=25°C

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

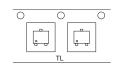


Product & Package Information

• Package : MCPH3

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

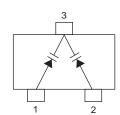
Packing Type: TL



Marking



Electrical Connection



September, 2013

SVC272

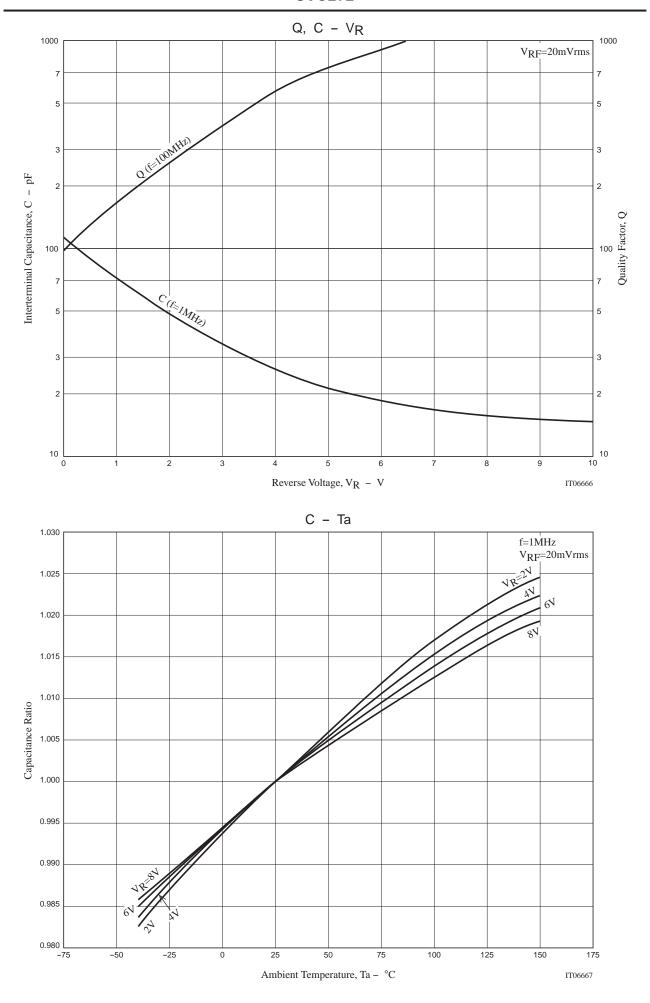
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	Utill
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	V _R =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	Device Package		memo	
SVC272-TL-E	MCPH3	3,000pcs./reel	Pb Free	

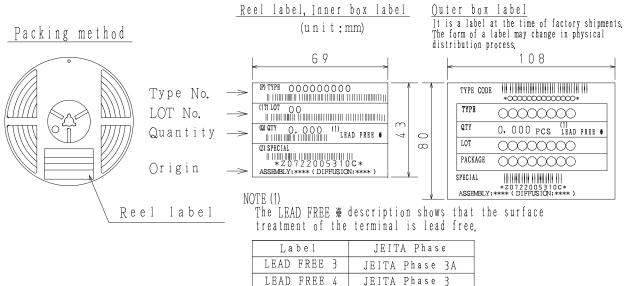


Taping Specification

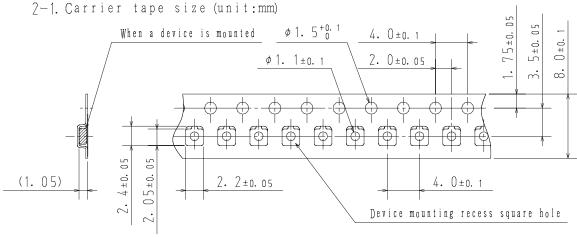
SVC272-TL-E

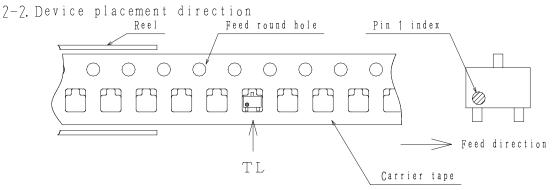
1. Packing Format

Package Name	Carrier Tape	Maximun Number of devices contained (pcs)			Packing	f o r m a t
	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





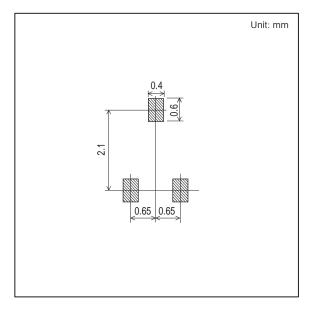
Those with pin 1 index on the feed hole side·····TL

Outline Drawing

SVC272-TL-E

Mass (g) Unit 0.007 For reference mm 2.040.06 3.15^{40.1} 2.040.06 3.3^{40.1} 2.040.06 3.3^{40.1} 2.040.06 3.3^{40.1} 3.05^{40.1} 3.0

Land Pattern Example



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