SVC276

Varactor Diode Monolithic dual Varactor Diode for FM Tuning 16V, 50nA, CR=3.1, Q=100, MCPH3

Features

· Twin type with a good linearity of C-V characteristic. Excels in large input characteristic

SVC276-TL-E

- · Small package permits SVC276-applied sets to be compact and slim
- High capacitance ratio (VR=2.0 to 8.0V)
- High Quality Factor

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		16	V
Junction Temperature	Тј		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

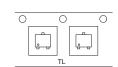
PackageJEITA, JEDEC

: SC-70, SOT-323

Marking

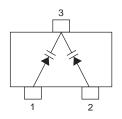
• Minimum Packing Quantity : 3,000 pcs./reel

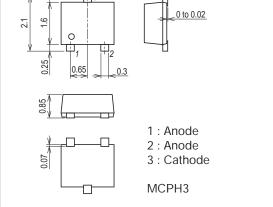
Packing Type : TL





Electrical Connection





0.15



http://onsemi.com

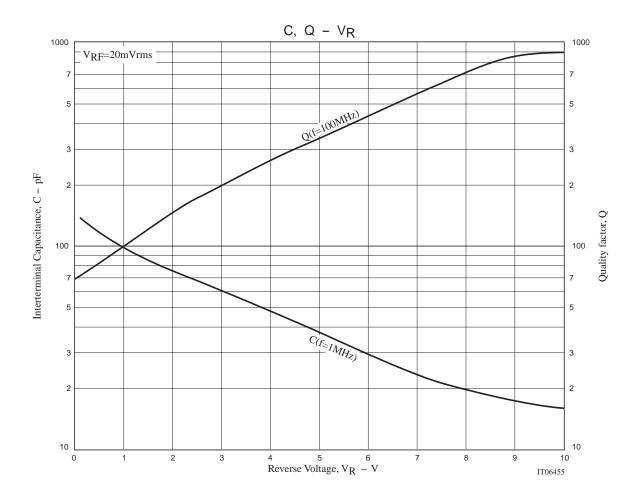
Electrical Characteristics at Ta=25°C

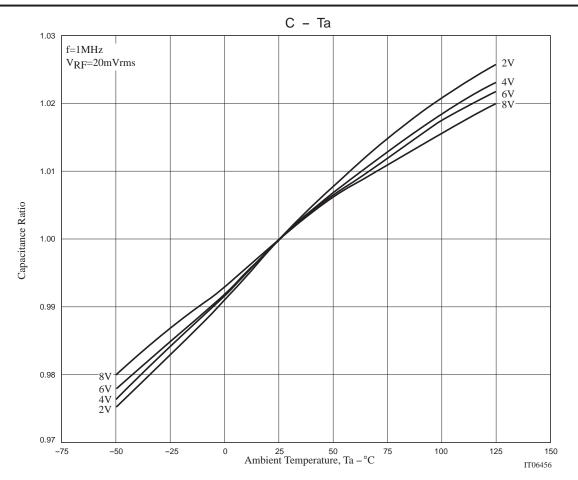
Parameter	Symbol	Conditions		Unit			
Faianietei	Symbol	Conditions	min	typ	max	Unit	
Breakdown Voltage	V(BR)R	I _R =10μA	16			V	
Reverse Current	IR	V _R =10V			50	nA	
	C2.0V	V _R =2.0V, f=1MHz	73.72		79.77	pF	
Interterminal Capacitance*	C6.0V	V _R =6.0V, f=1MHz	25.50		33.61	pF	
	C8.0V	VR=8.0V, f=1MHz	18.04		23.78	pF	
Quality Factor	Q	VR=2.0V, f=100MHz	100				
Capacitance Ratio	CR	C2.0V / C8.0V	3.1				

Note)* : Capacitance value per each diode

Ordering Information

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Device	Package	Shipping	memo		
SVC276-TL-E	C276-TL-E MCPH3		Pb Free		





Taping Specification SVC276-TL-E

1. Packing Format

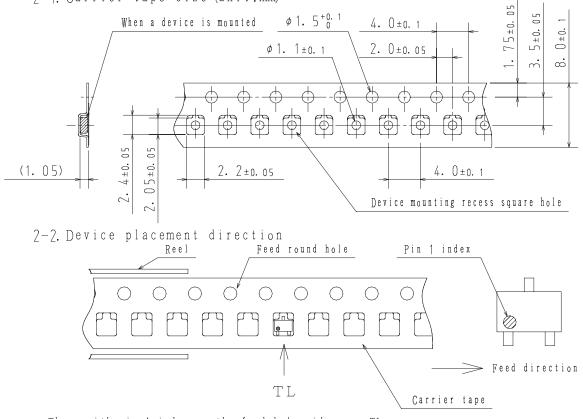
Package Name	Carrier Tape	Maximun Number of devices contained (pcs)			Packing format			
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)			Outer BOX (A-7)
МСРНЗ	MCPH3	3,000	15,000	90,000	5 ree	els containe	e d	6 inner boxes contained
					Dime	nsions:mm (external)	Dimensions:mm (external)
					18	$3 \times 72 \times$:185	440×195×210
	Reel label, Inner box label Outer box label							
Packing met	h o d			(u 1	nit:r	nm)	The for	a label at the time of factory shipments, rm of a label may change in physical bution process.
°			<	(59	>	<	108
	Туре		->) TYPE OOOC 	00000	, , , , , , , ,		TYPE CODE
	())) LOT ())) Quan			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			-	QTY 0,000 PCS LEAD FREE *
	Will Quui	,	(Z) SPECIAL			0	LOT 000000000
	Orig	i n		* Z 0 7 2 2 SSEMBLY:**** (PACKAGE OCCORD
	A.		NOTE	2 (1)				*Z0722005310C* ASSEMBLY:**** (DIFFUSION:*****)
	Reel la	bel	Tł	ie LEAD Fl	REE 💥 of the	description terminal	n shows t is lead f	hat the surface ree.
				Label		JEITA	Phase	
				LEAD FRH	EE 3	JEITA P	hase 3A	

LEAD FREE 4

JEITA Phase 3

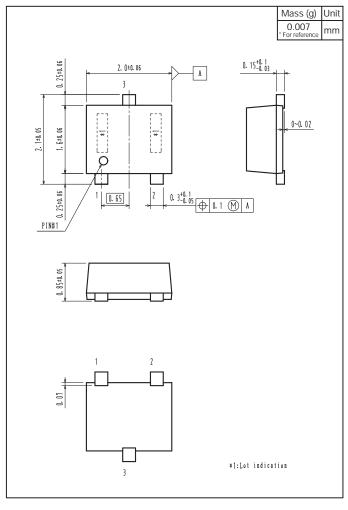
2. Taping configuration

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

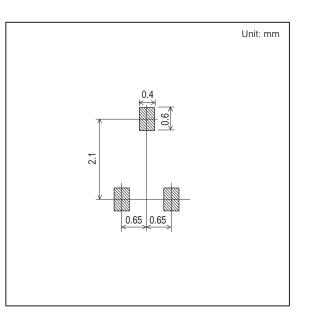


Those with pin 1 index on the feed hole side $\cdots \cdots TL$

Outline Drawing SVC276-TL-E



Land Pattern Example



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