



ON Semiconductor®

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

Specifications

Absolute Maximum Ratings at $T_a=25^\circ C$

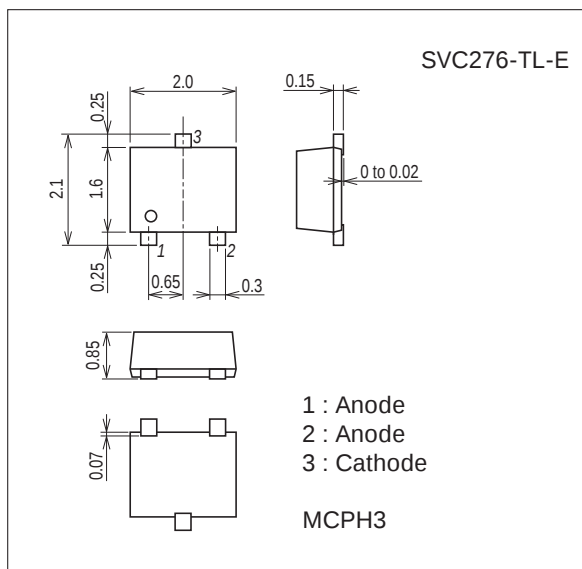
Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		16	V
Junction Temperature	T_j		125	$^\circ C$
Storage Temperature	T_{stg}		-55 to +125	$^\circ C$

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)

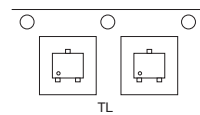
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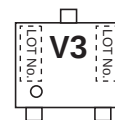
Product & Package Information

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

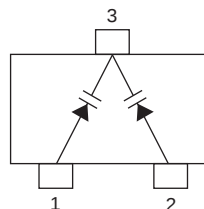
Packing Type : TL



Marking



Electrical Connection



SVC276

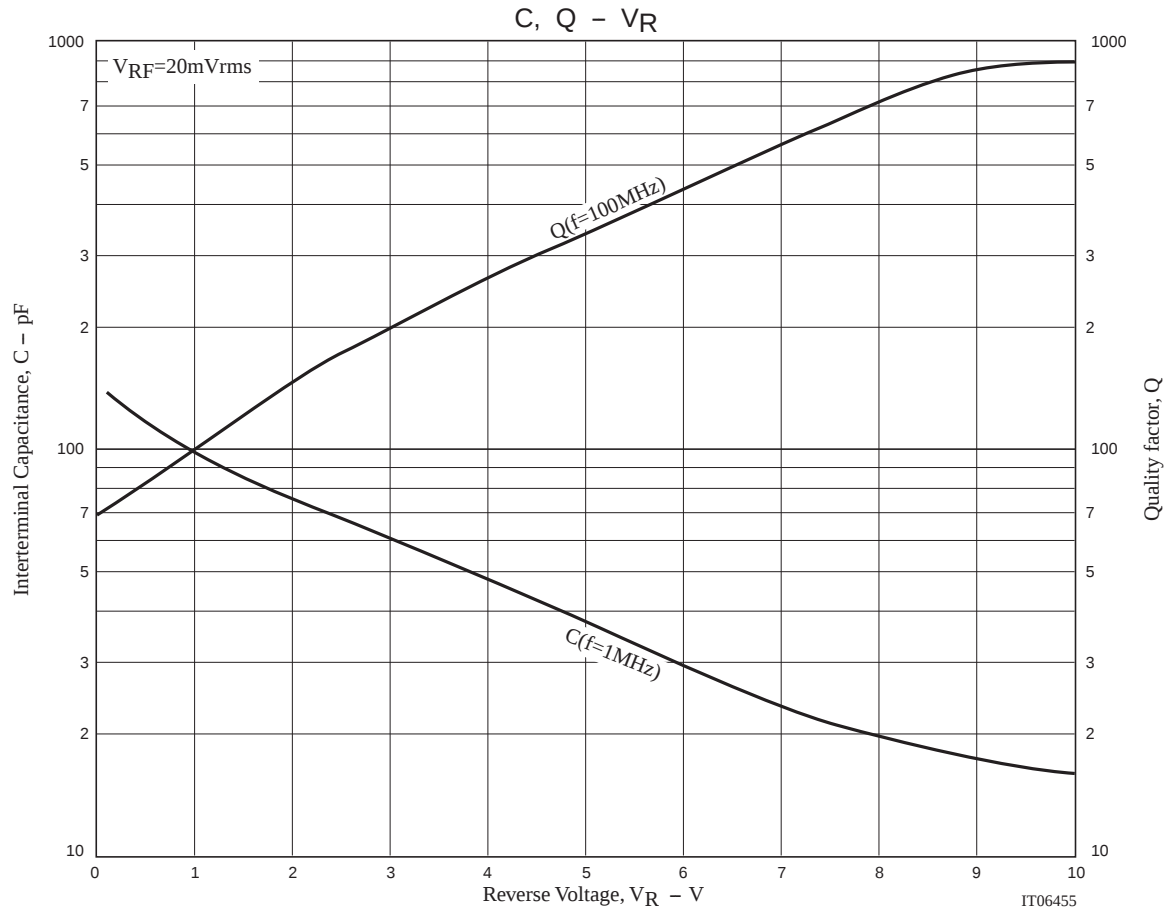
Electrical Characteristics at Ta=25°C

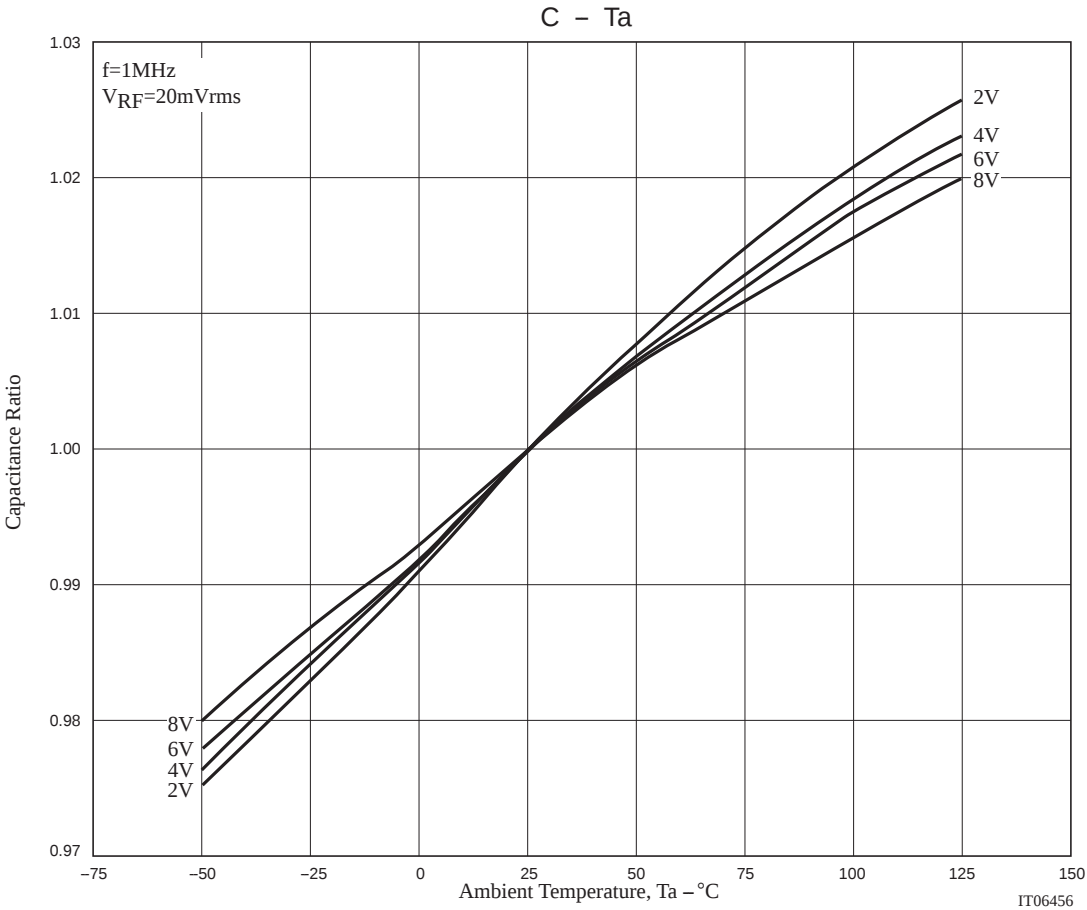
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	16			V
Reverse Current	I_R	$V_R=10V$			50	nA
Interterminal Capacitance*	C2.0V	$V_R=2.0V, f=1MHz$	73.72		79.77	pF
	C6.0V	$V_R=6.0V, f=1MHz$	25.50		33.61	pF
	C8.0V	$V_R=8.0V, f=1MHz$	18.04		23.78	pF
Quality Factor	Q	$V_R=2.0V, f=100MHz$	100			
Capacitance Ratio	C_R	C2.0V / C8.0V	3.1			

Note)* : Capacitance value per each diode

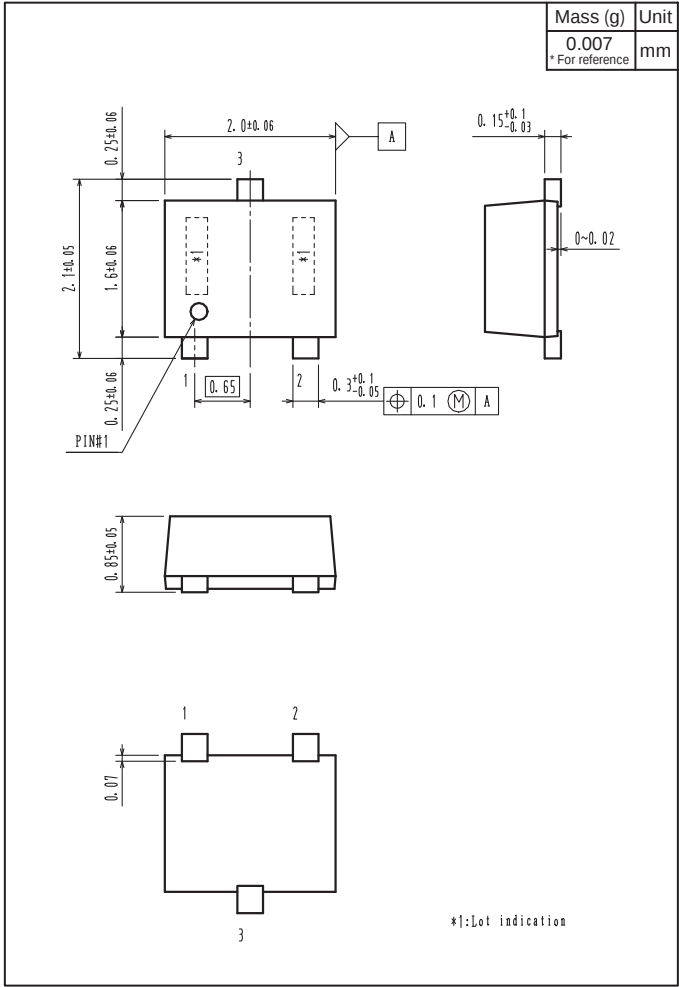
Ordering Information

Device	Package	Shipping	memo
SVC276-TL-E	MCPH3	3,000pcs./reel	Pb Free

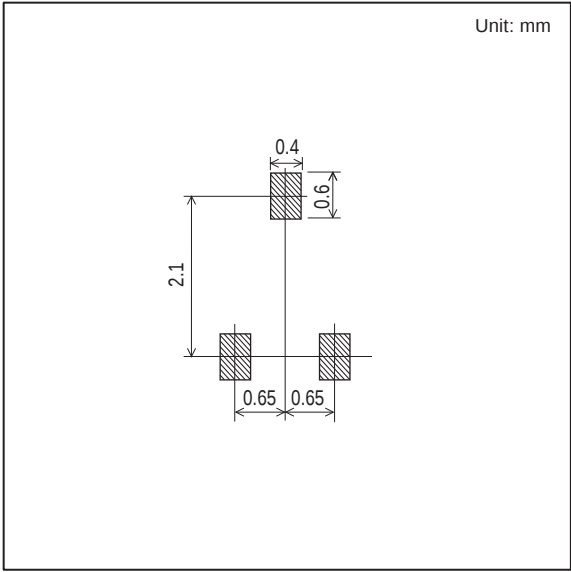




Outline Drawing
SVC276-TL-E



Land Pattern Example



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