



ON Semiconductor®

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SVC272

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 provided in tape reel package thereby automatic insertion is supported
- High Quality Factor

Specifications

Absolute Maximum Ratings at Ta=25°C

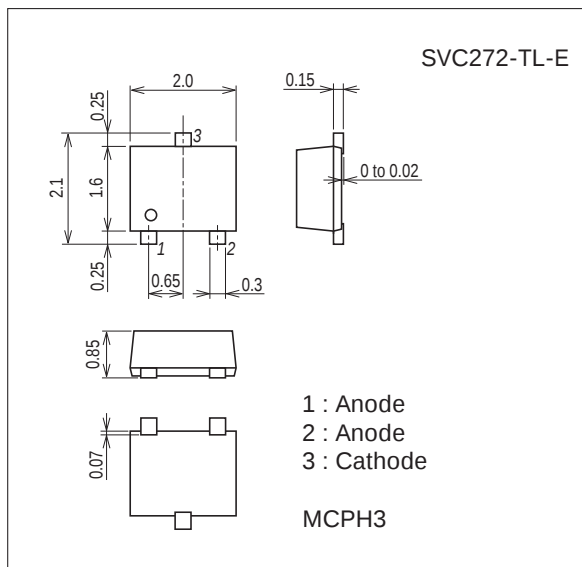
Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		16	V
Junction Temperature	T_j		125	°C
Storage Temperature	T_{stg}		-55 to +125	°C

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)

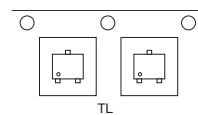
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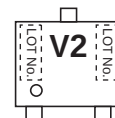
Product & Package Information

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

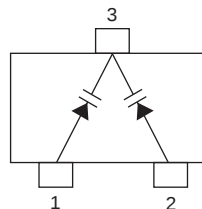
Packing Type : TL



Marking



Electrical Connection



SVC272

Electrical Characteristics at Ta=25°C

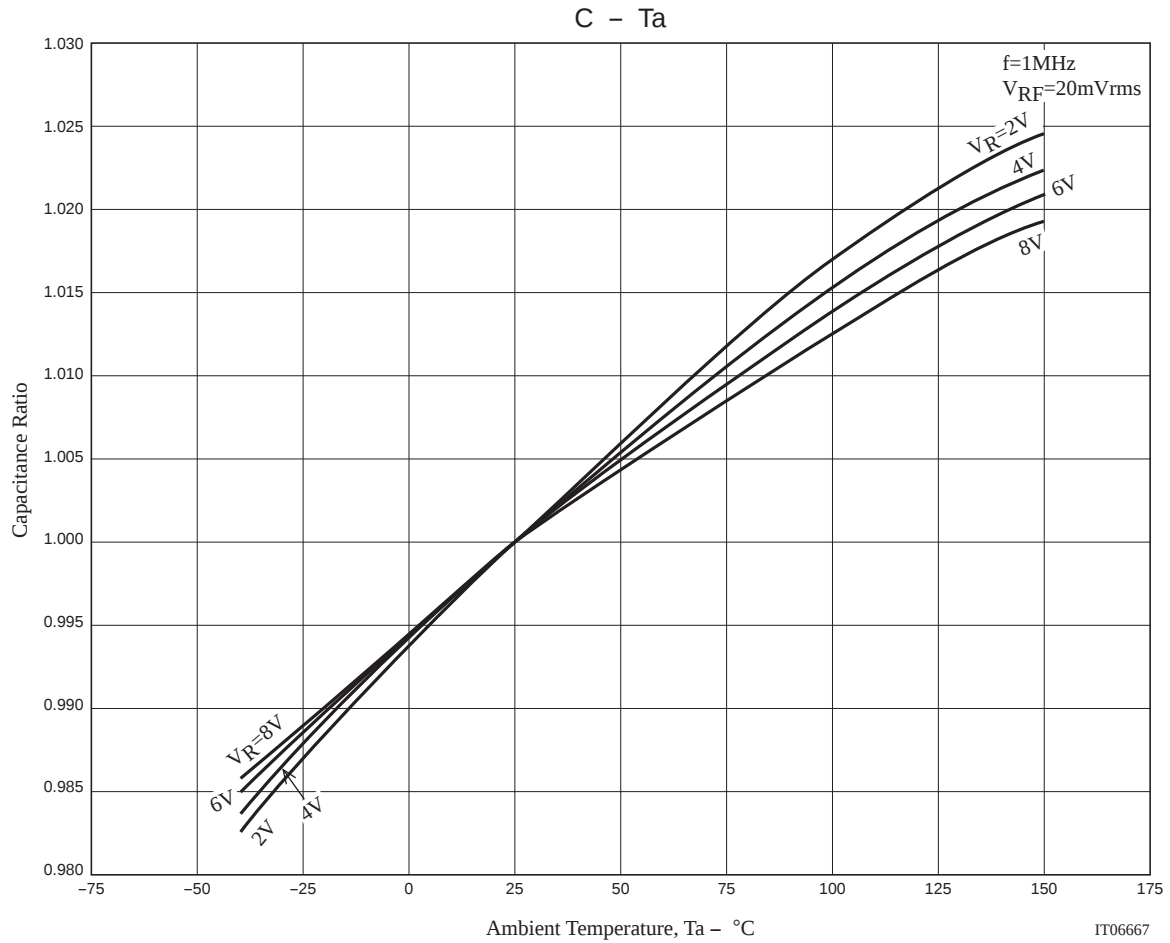
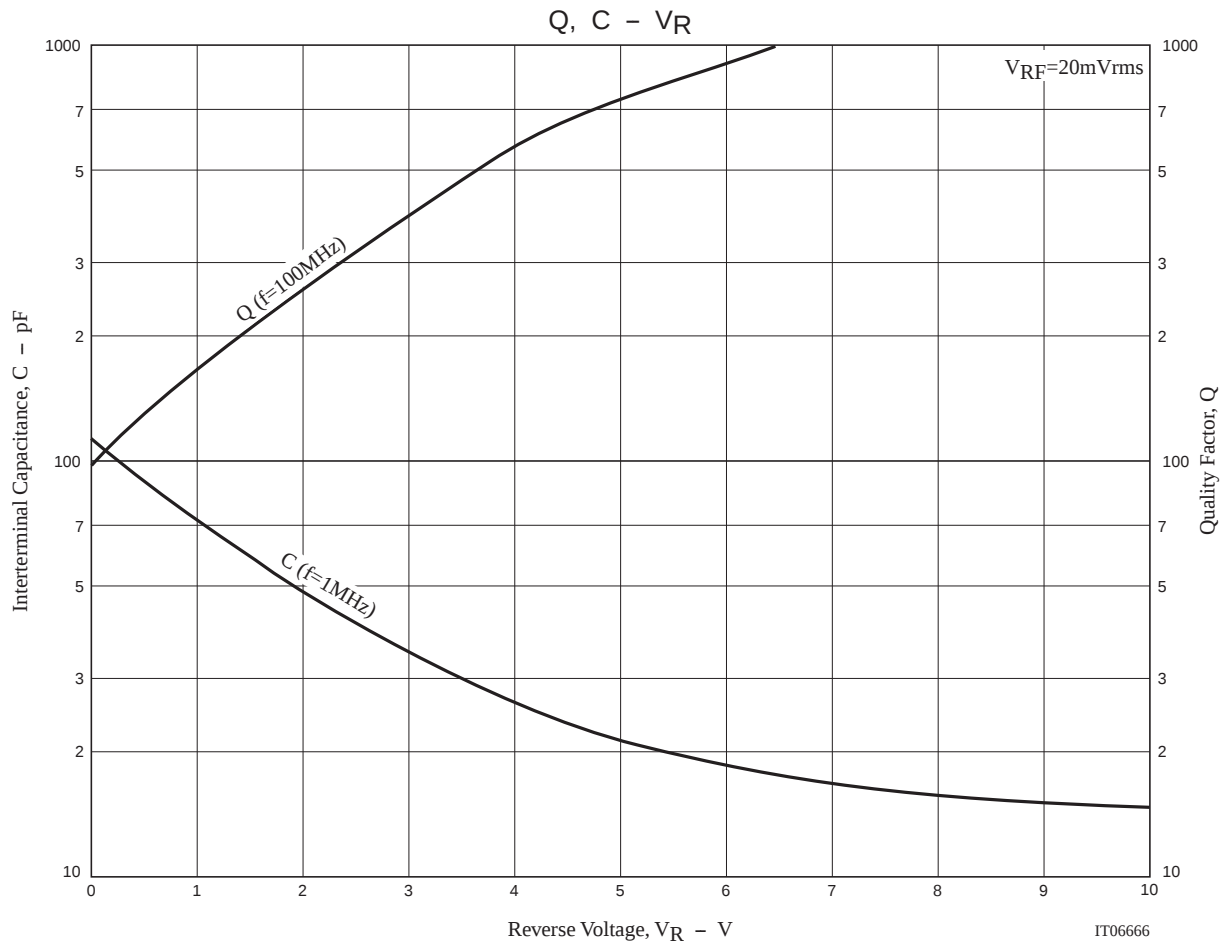
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	V(BR)R	I _R =10μA	14			V
Reverse Current	I _R	V _R =10V			50	nA
Interterminal Capacitance*	C2.0V	V _R =2.0V, f=1MHz	44.91		49.82	pF
	C8.0V	V _R =8.0V, f=1MHz	14.07		18.55	pF
Quality Factor	Q	V _R =2.0V, f=100MHz	150			
Capacitance Ratio	C _R	C2.0V / C8.0V	2.3			
Matching Tolerance	ΔC _m	V _R =2.0V, 8.0, f=1MHz (C max-C min) / C min×100			3.0	%

Note)* : Capacitance value per each diode.

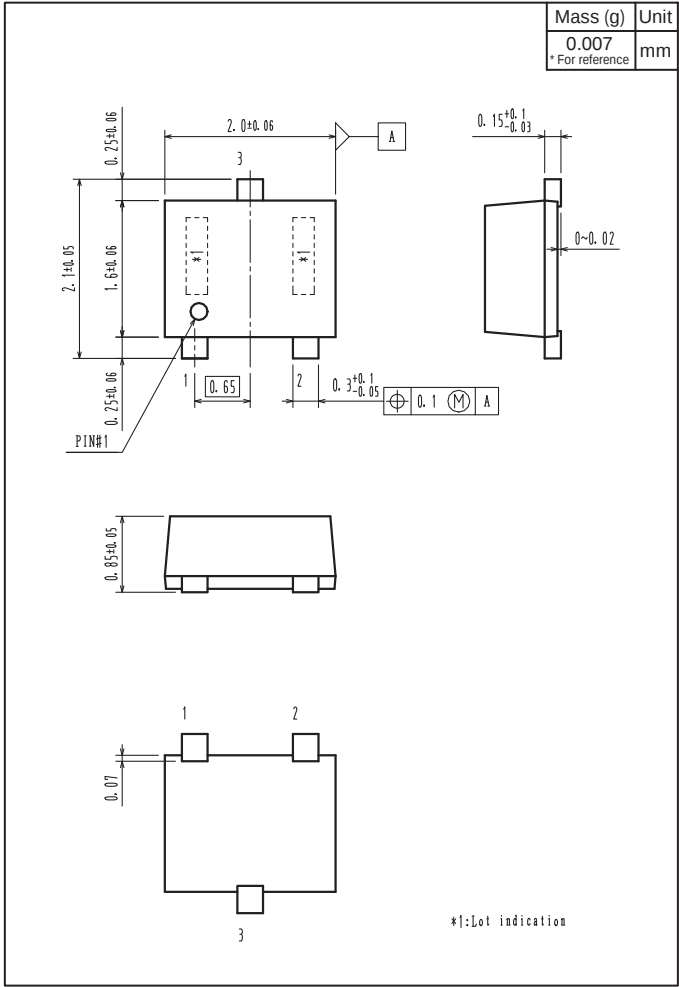
Ordering Information

Device	Package	Shipping	memo
SVC272-TL-E	MCPH3	3,000pcs./reel	Pb Free

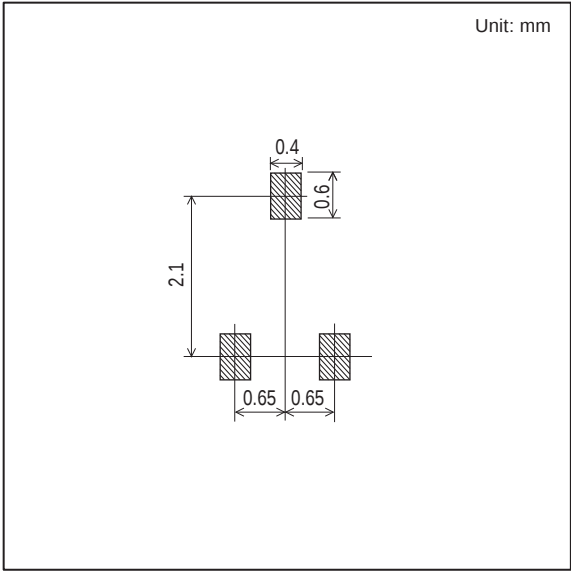
SVC272



Outline Drawing
SVC272-TL-E



Land Pattern Example



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