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Monolithic dual Varactor Diode for FM Tuning

16V, 50nA, $C_R=3.1$, $Q=100$, MCPH3

- 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

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

The drawing shows three views of the SVC276-TL-E component:

- Top View:** A rectangular component with a central square pad (3) and two side pads (1 and 2). Dimensions include a total width of 2.0, a central pad width of 0.25, a distance of 1.6 from the top edge to the center of pad 3, a distance of 0.25 from the bottom edge to the center of pad 1, a distance of 0.65 from the center of pad 1 to the center of pad 2, and a distance of 0.3 from the center of pad 2 to the right edge.
- Side View:** Shows the component's profile with a thickness of 0.15 and a gap of 0 to 0.02 between the component and the mounting surface.
- End View:** Shows the component's width of 0.85 and a height of 0.07 from the mounting surface to the top of the component.

Legend:

- 1 : Anode
- 2 : Anode
- 3 : Cathode

Model: MCPH3

SVC276

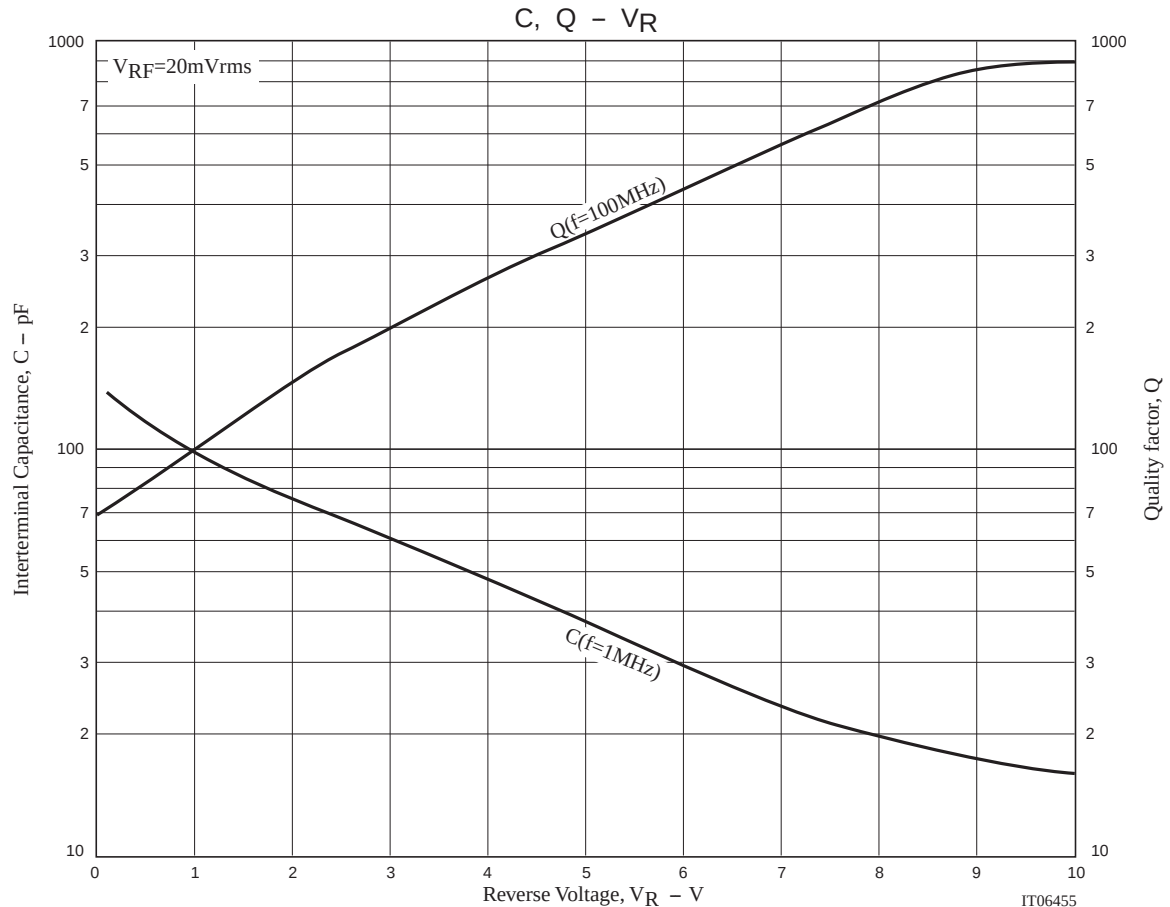
Electrical Characteristics at Ta=25°C

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			

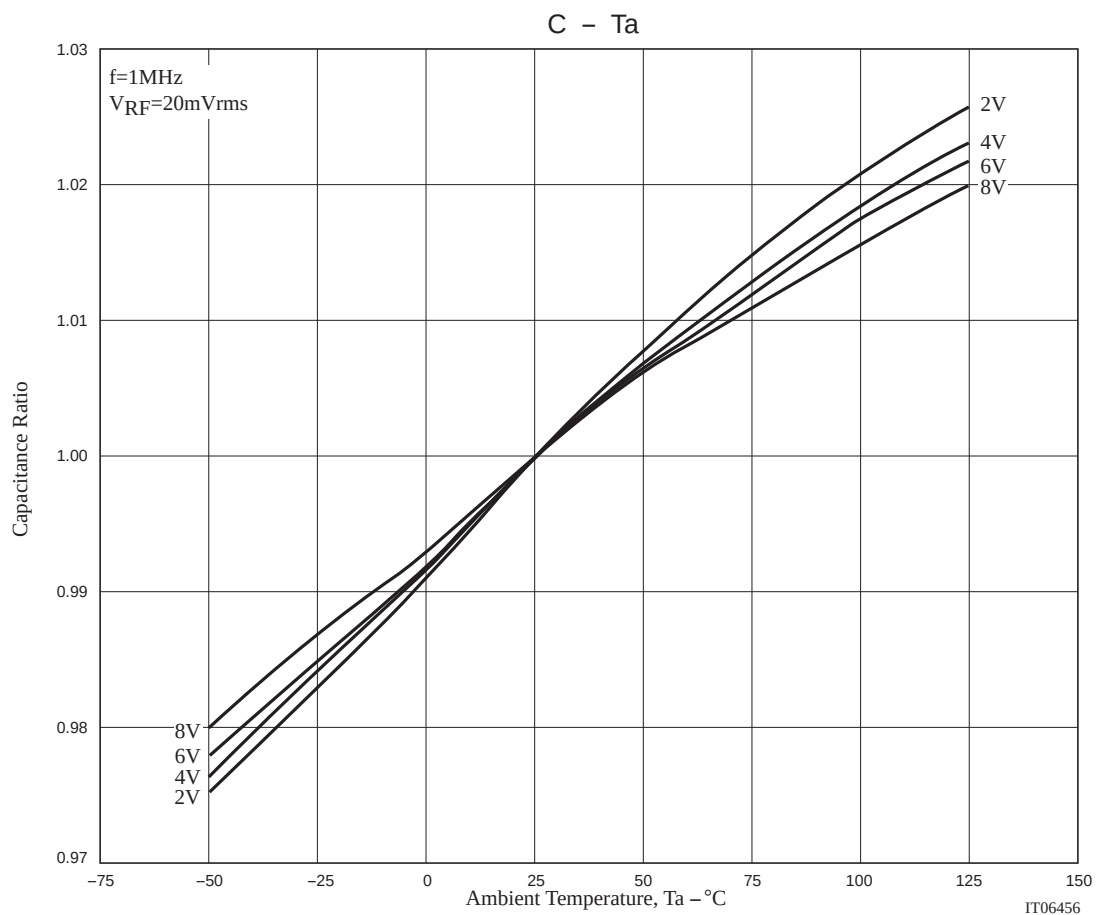
Note)* : Capacitance value per each diode

Ordering Information

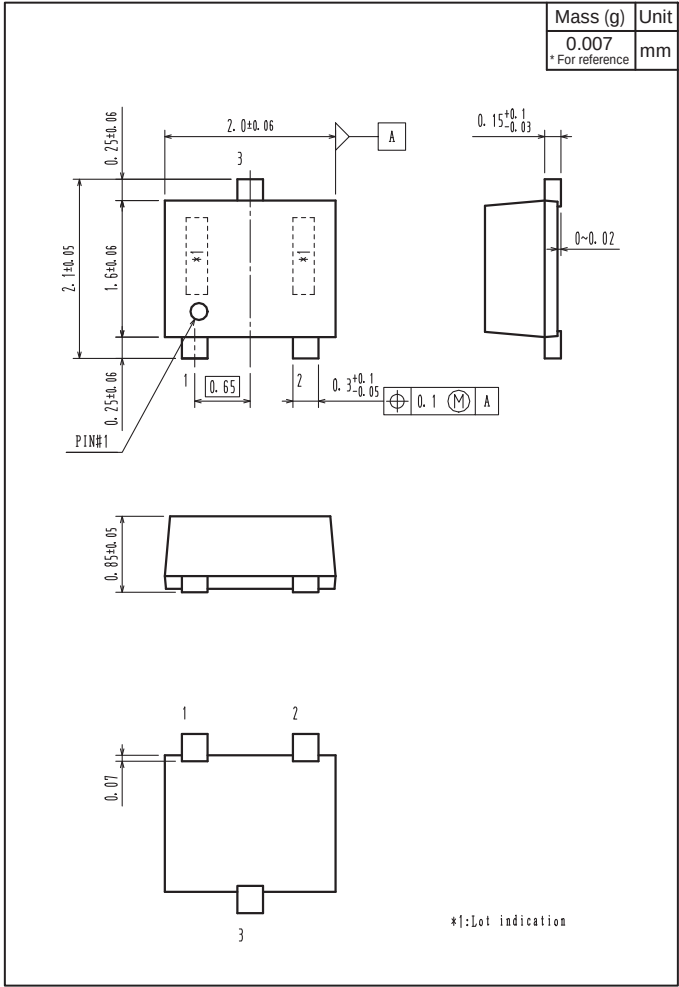
Device	Package	Shipping	memo
SVC276-TL-E	MCPH3	3,000pcs./reel	Pb Free



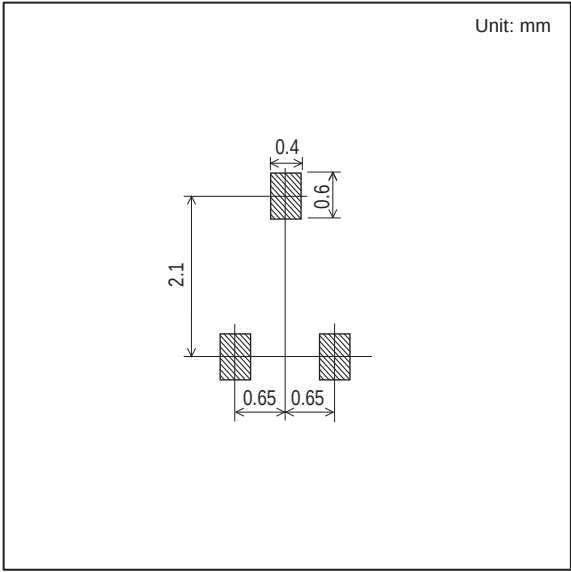
SVC276



Outline Drawing
SVC276-TL-E



Land Pattern Example



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