SVC230

Varactor Diode Monolithic dual Varactor Diode for FM Tuning 16V, 50nA, CR=1.65, Q=100, CP



- Twin type varactor diode having an excellent large input characteristic, for use in FM electronic tuning applications
- Small CP package permits SVC230 applied sets to be compact and slim
- Possible to be shipped in tape reel packaging, which facilitates automatic insertion
- High Q

Specifications

Absolute Maximum Ratings at Ta=25°C

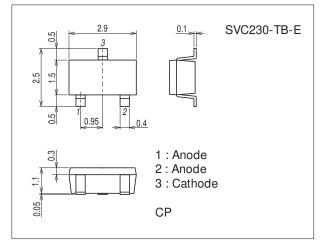
Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		16	V
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

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)

7013A-006



Product & Package Information

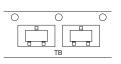
- Package
- JEITA, JEDEC : SC-59, TO-236, SOT-23, TO-236AB

: CP

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

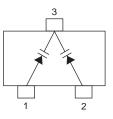
Packing Type: TB

Marking





Electrical Connection





Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
Faidmeter			min	typ	max	Unit
Breakdown Voltage	V(BR)R	I _R =10μA	16			V
Reverse Current	IR	V _R =10V			50	nA
Interterminal Capacitance *1	C2V	V _R =2.0V, f=1MHz	44.0		46.5	pF
	C8V	V _R =8.0V, f=1MHz	25.1		28.2	pF
Quality Factor	Q	VR=3.0V, f=100MHz	100			
Capacitance Ratio	CR	C2.0V / C8.0V	1.65		1.75	
Matching Tolerance *2	ΔCm	V _R =2.0V, f=1MHz, (Cmax×Cmin) / Cmin×100			3	%

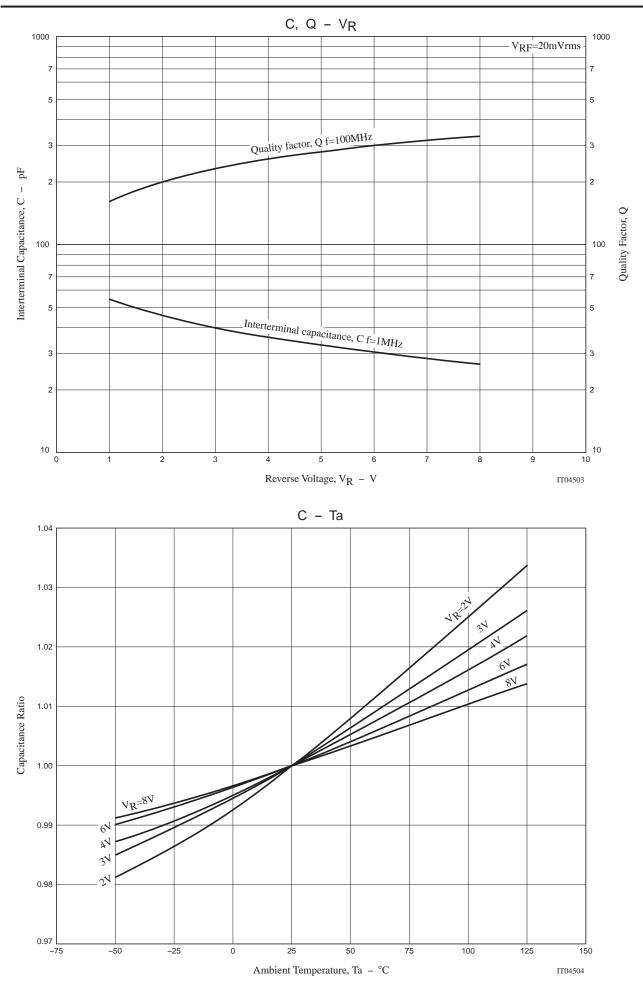
Note) *1 : Capacitance value of one diode

*2 : Matching Tolerance is valid for the devices in one taping reel.

Ordering Information

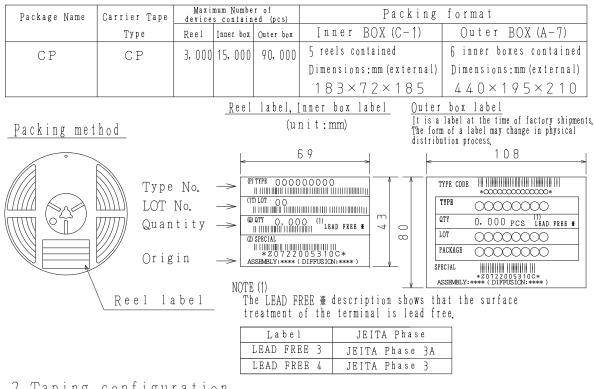
Device	Package	Shipping	memo	
SVC230-TB-E CP		3,000pcs./reel	Pb Free	

SVC230

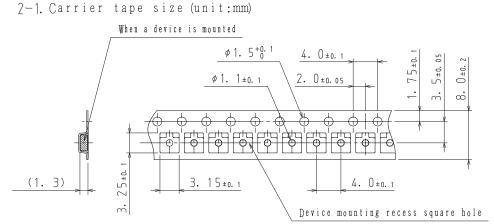


Taping Specification SVC230-TB-E

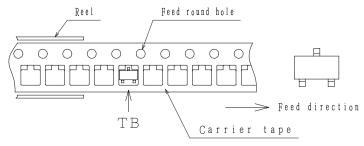
1. Packing Format



7. Taping configuration

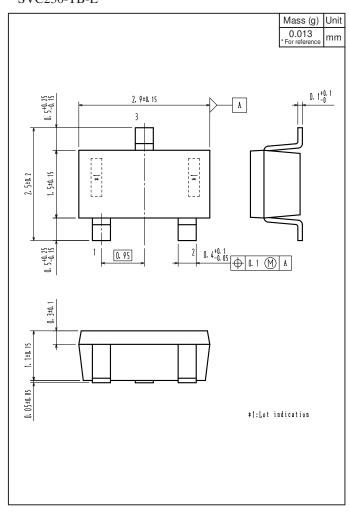


2-2. Device placement direction

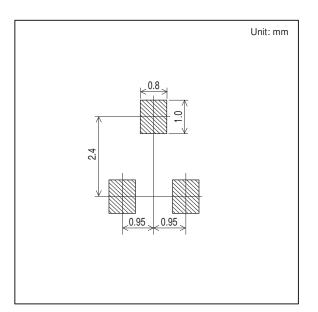


Those with one electrode terminal on the feed hole side TB

Outline Drawing SVC230-TB-E



Land Pattern Example



SVC230

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