SVC230

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Varactor Diode

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

Features

- · 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

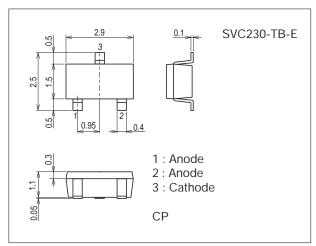
Absolute Maximum Ratings at Ta=25°C

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



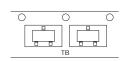
Product & Package Information

• Package : CP

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

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

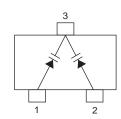
Packing Type: TB





Marking

Electrical Connection



September, 2013 72512 TKIM/O1002 TSIM TA-3617 No.7280-1/6

SVC230

Electrical Characteristics at Ta=25°C

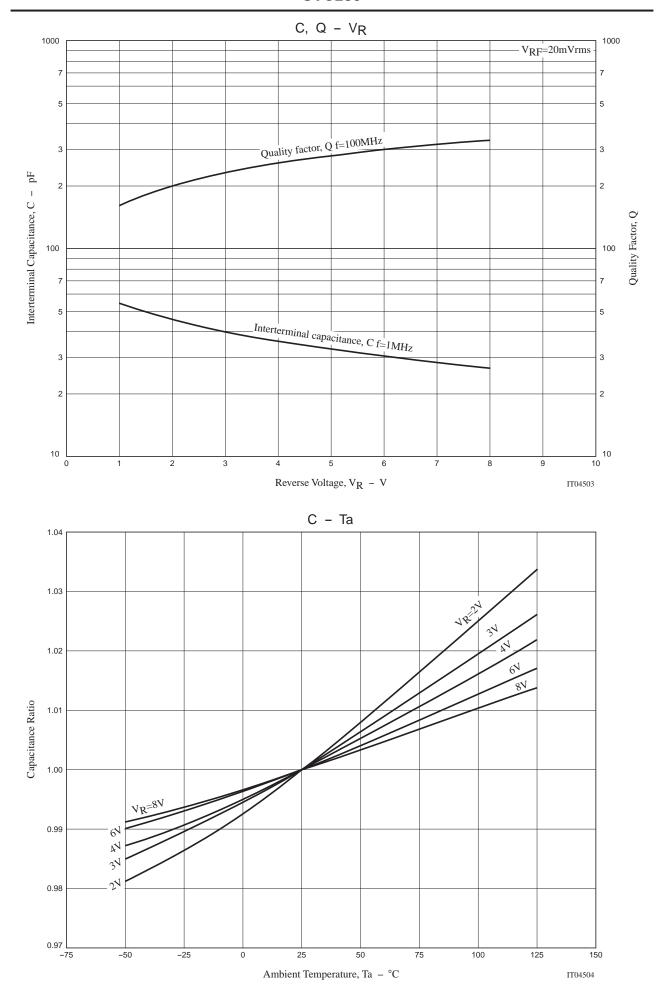
Parameter	Symbol	Conditions	Ratings			Unit	
Parameter	Symbol Conditions		min	typ	max	UIIIL	
Breakdown Voltage	V(BR)R	I _R =10μA	16			V	
Reverse Current	IR	V _R =10V			50	nA	
Interterminal Capacitance *1	C2V	V _R =2.0V, f=1MHz	44.0		46.5	pF	
Interterminal Capacitance	C8V	V _R =8.0V, f=1MHz	25.1		28.2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

Note) *1 : Capacitance value of one diode

Ordering Information

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

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

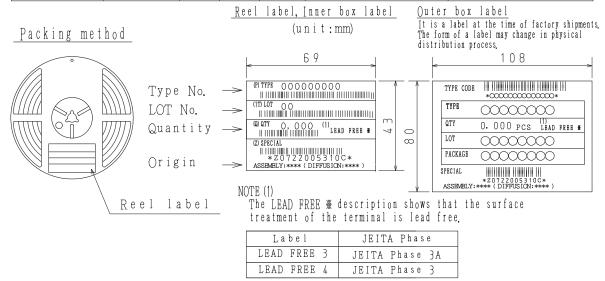


Taping Specification

SVC230-TB-E

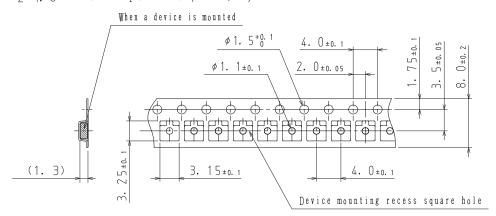
1. Packing Format

ſ	Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing format		
		Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)	
	СР	СР	3, 000	15, 000	90,000	5 reels contained	6 inner boxes contained	
						Dimensions:mm (external)	Dimensions:mm (external)	
						183×72×185	440×195×210	

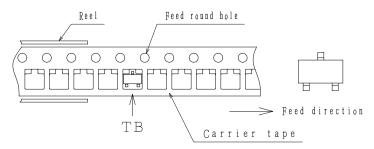


7. Taping configuration

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



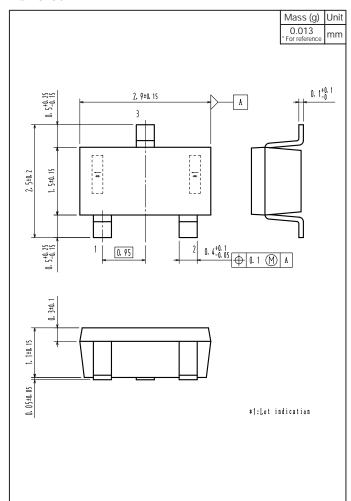
2-2. Device placement direction



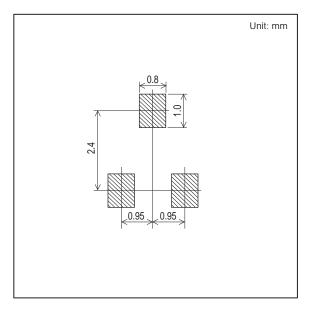
Those with one electrode terminal on the feed hole side·····TB

Outline Drawing

SVC230-TB-E



Land Pattern Example



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