

SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

SVC236 — Varactor Diode for

Diffused Junction Type Silicon Diode

FM Receiver Electronic Tuning Use

Features

- Low voltage (6.5V)
- · Twin type varactor diode with good large-signal characteristics for FM receiver electronic tuning use
- · Very small package permits SVC236-applied sets to be compact and slim
- · Can be also provieded in tape reel package and automatic insertion is supported
- High capacitance ratio (VR=1.0 to 6.5V)

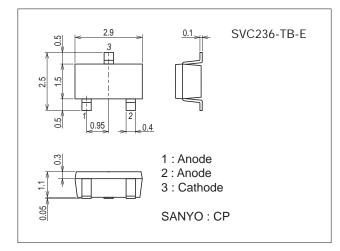
Specifications

Absolute Maximum Ratings at Ta=25°C

3				
Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		16	V
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

Package Dimensions

unit : mm (typ) 7013A-006

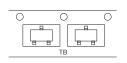


Product & Package Information

- Package : CP
- JEITA, JEDEC : SC-59, TO-236, SOT-23, TO-236AB
- Minimum Packing Quantity : 3,000 pcs./reel

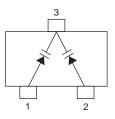
Packing Type: TB

Marking





Electrical Connection



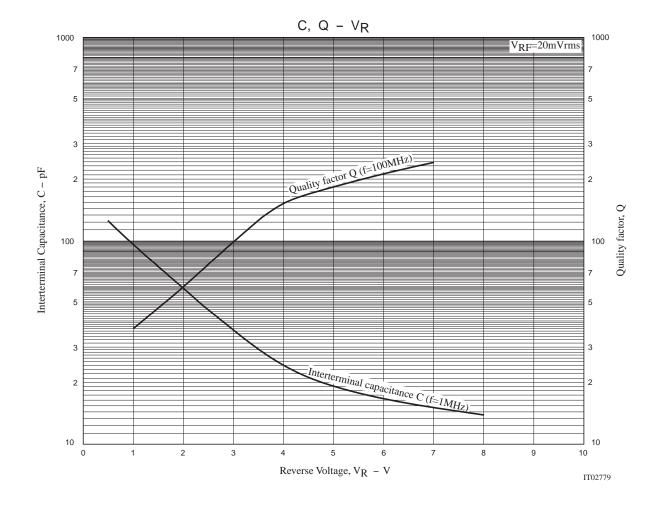
Electrical Characteristics at Ta=25°C

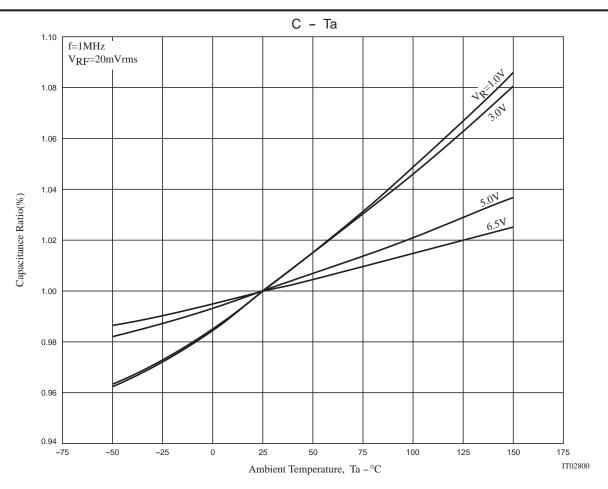
Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	Unit
Breakdown Voltage	V(BR)R	I _R =10μA	16			V
Reverse Current	IR	V _R =10V			50	nA
Interterminal Capacitance *	C1V	V _R =1.0V, f=1MHz *	92.07		102.12	pF
	C3.0V	V _R =3.0V, f=1MHz	35.14		41.98	pF
	C6.5V	VR=6.5V, f=1MHz	14.44		16.84	pF
Quality Factor	Q	V _R =3.0V, f=100MHz	70			
Capacitance Ratio	CR	C1.0V / C6.5V	5.0			
Matching Tolerance	ΔCm	V _R =1.0V, 3.0, 6.5, f=1MHz, (Cmax×Cmin) / Cmin×100			3.0	%

Note) * : Capacitance value per each diode. * : 1MHz signal : 20mVnms

Ordering Information

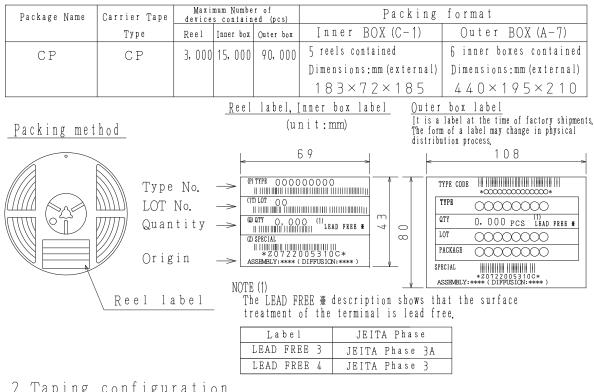
3			
Device	Package	Shipping	memo
SVC236-TB-E	CP	3,000pcs./reel	Pb Free



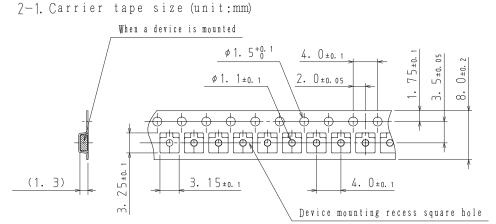


Taping Specification SVC236-TB-E

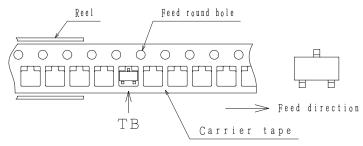
1. Packing Format



7. Taping configuration

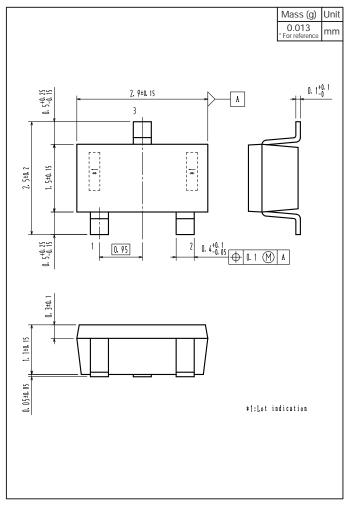


2-2. Device placement direction

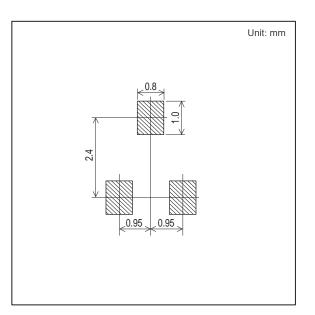


Those with one electrode terminal on the feed hole side TB

Outline Drawing SVC236-TB-E



Land Pattern Example



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