



SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

1SV234 — Silicon Epitaxial Type

PIN Diode for VHF, UHF, AGC Applications

Features

- Series connection of 2 elements in an ultrasmall package facilitates high-density mounting and permits 1SV234-applied equipment to be made smaller
- Small interterminal capacitance ($C=0.23\text{pF}$ typ)
- Small forward series resistance ($r_s=5\Omega$ typ)

Specifications

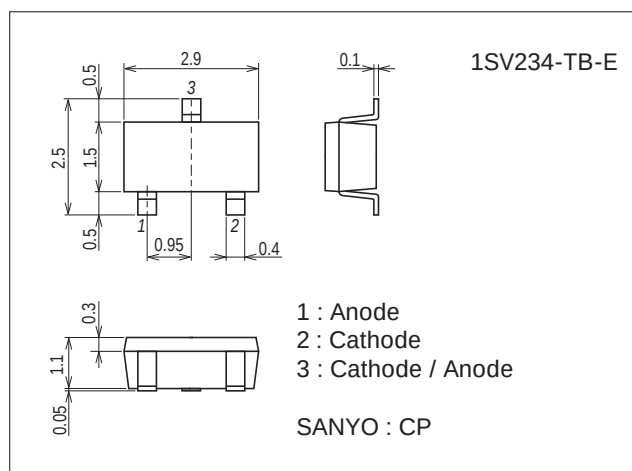
Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		50	V
Forward Current	I_F		50	mA
Allowable Power Dissipation	P		150	mW
Junction Temperature	T_j		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Package Dimensions

unit : mm (typ)

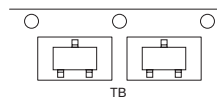
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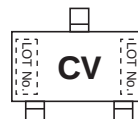
Product & Package Information

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

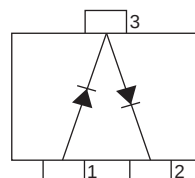
Packing Type: TB



Marking



Electrical Connection



1SV234

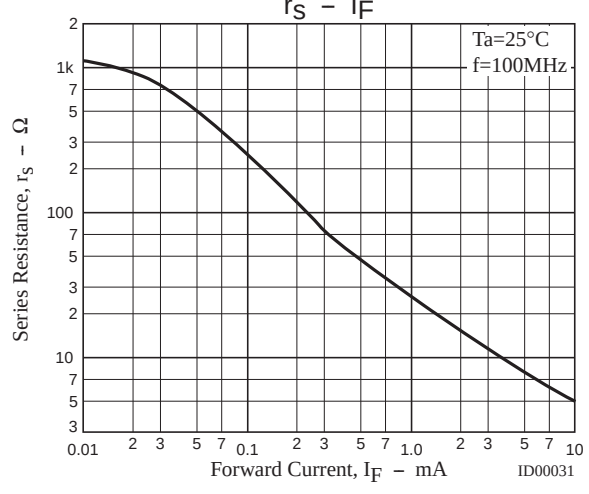
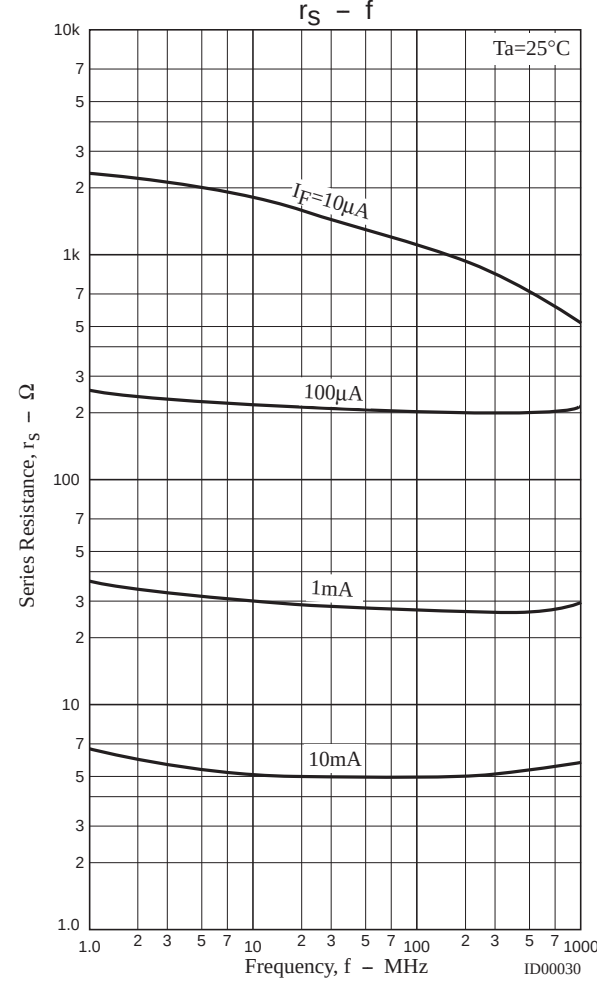
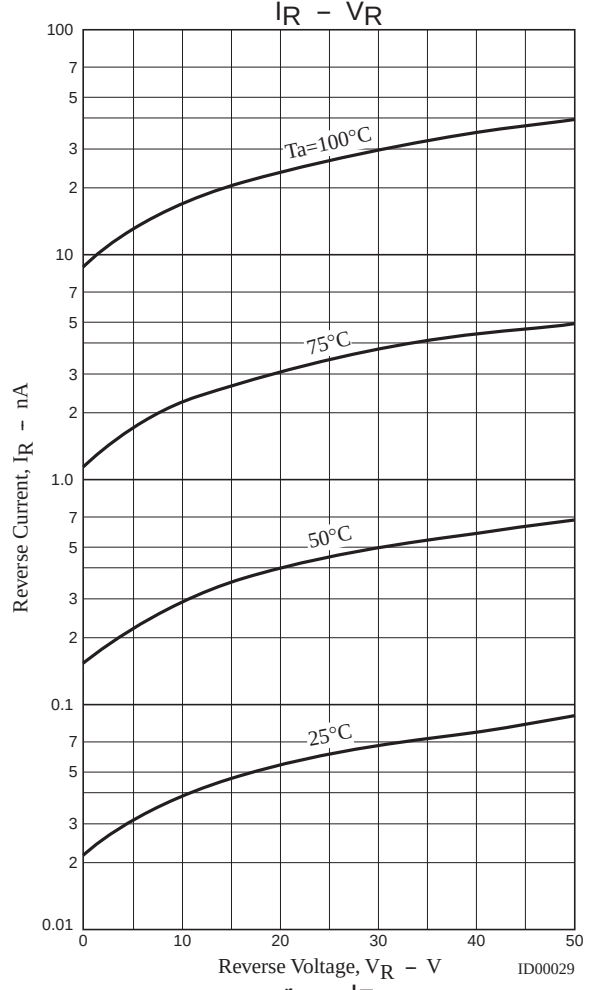
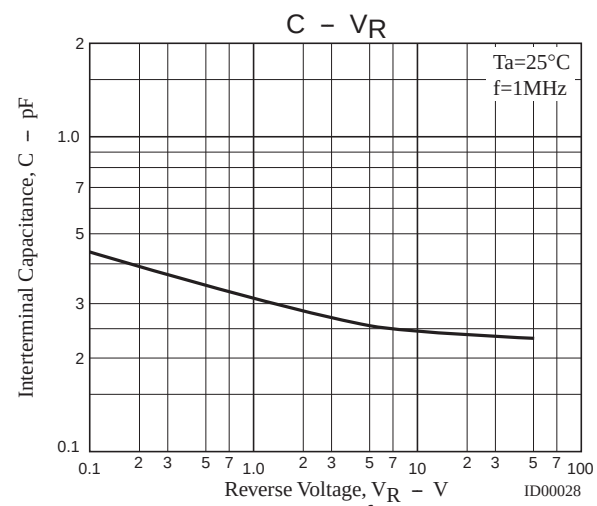
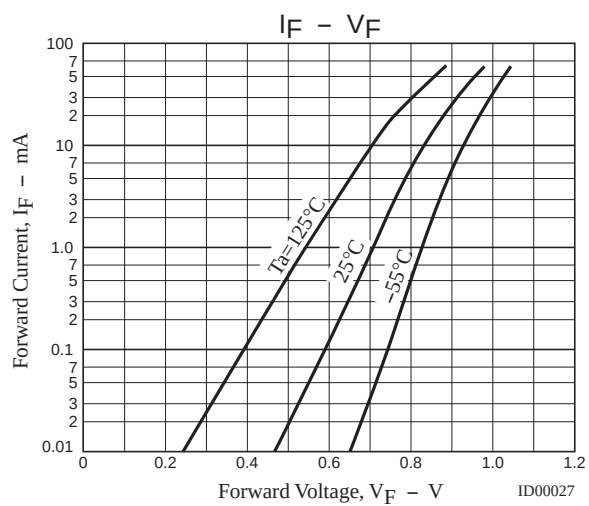
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	IR=10μA	50			V
Reverse Current	IR	VR=50V			0.1	μA
Forward Voltage	VF	IF=50mA		0.95		V
Interterminal Capacitance	C	VR=50V, f=1MHz		0.23		pF
Series Resistance	rs	IF=10mA, f=100MHz		5		Ω

Note : The specifications shown above are for each individual diode.

Ordering Information

Device	Package	Shipping	memo
1SV234-TB-E	CP	3,000pcs./reel	Pb Free

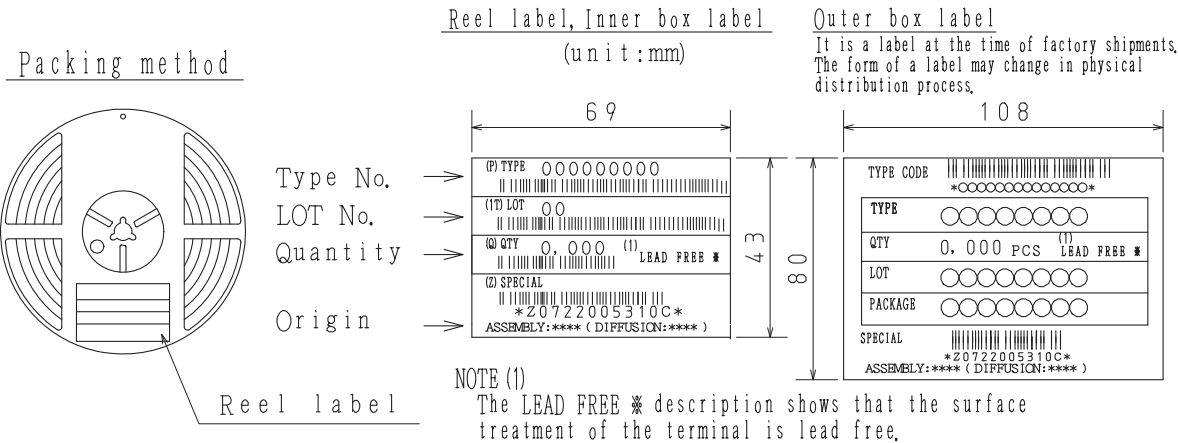


Embossed Taping Specification

1SV234-TB-E

1. Packing Format

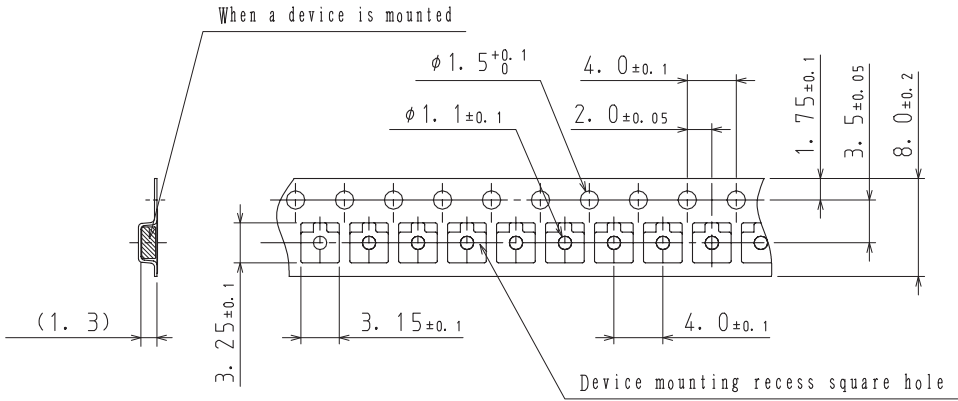
Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
CP	CP	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210



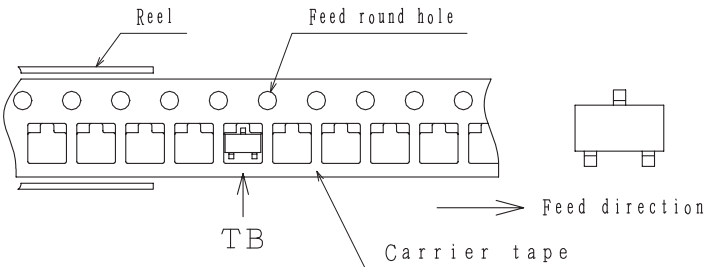
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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

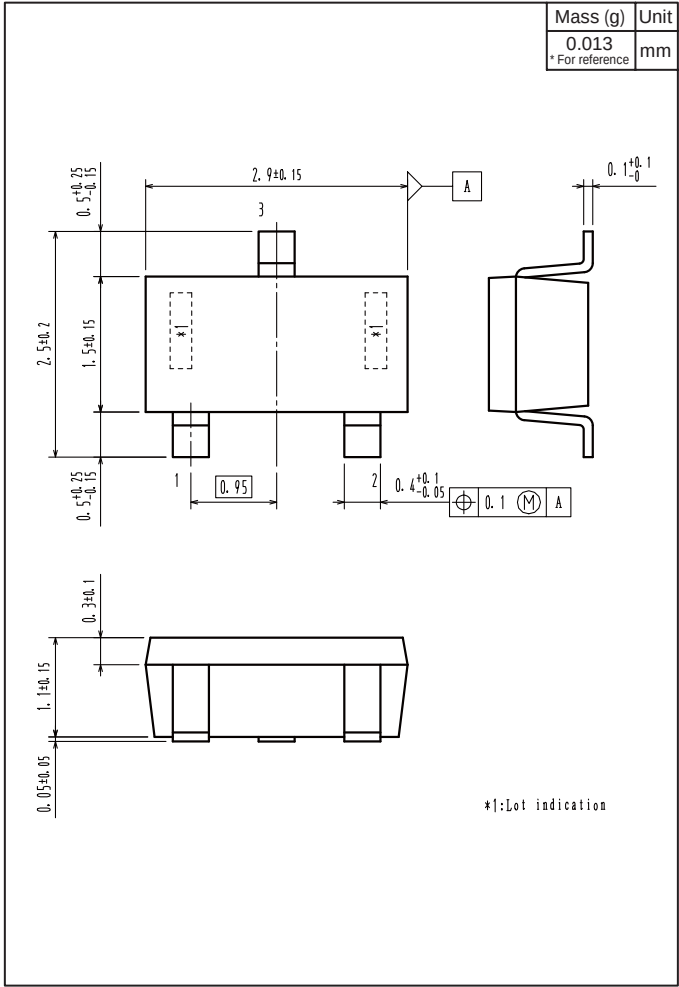


2-2. Device placement direction

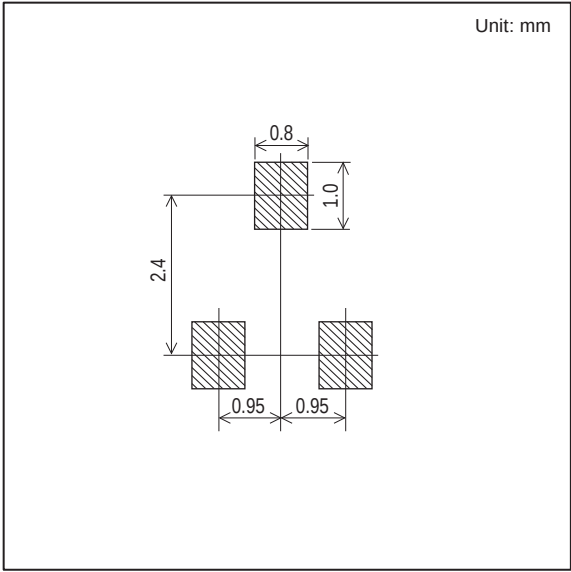


Those with one electrode terminal on the feed hole side.....TB

Outline Drawing
1SV234-TB-E



Land Pattern Example



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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.