



# 1SV233 — Silicon Epitaxial Type PIN Diode for VHF, UHF, AGC Use

## Features

- Very small-sized package facilitates high-density mounting and permits 1SV233-applied equipment to be made smaller
- Small interterminal capacitance (C=0.23pF typ)
- Small forward series resistance (rs=5Ω typ)

## Specifications

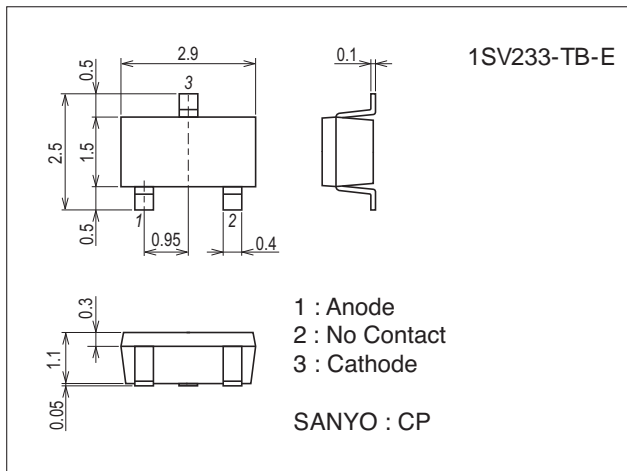
**Absolute Maximum Ratings** at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V <sub>R</sub>		50	V
Forward Current	I <sub>F</sub>		50	mA
Allowable Power Dissipation	P		150	mW
Junction Temperature	T <sub>J</sub>		125	°C
Storage Temperature	T <sub>stg</sub>		-55 to +125	°C

## Package Dimensions

unit : mm (typ)

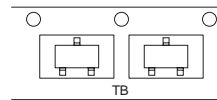
7013A-004



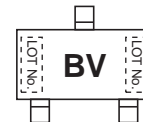
## Product & Package Information

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

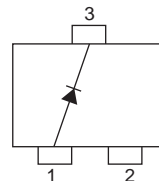
## Packing Type: TB



## Marking



## Electrical Connection



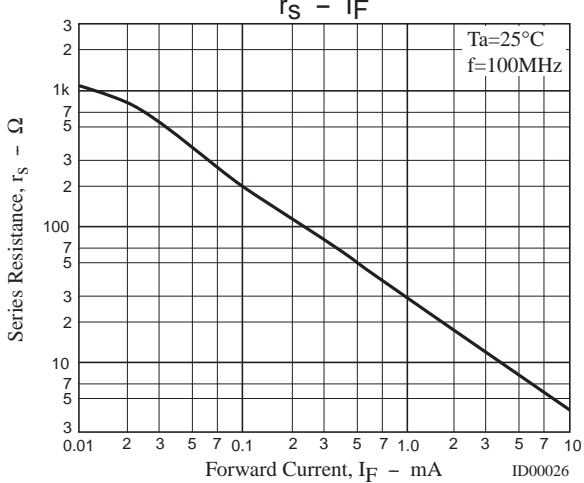
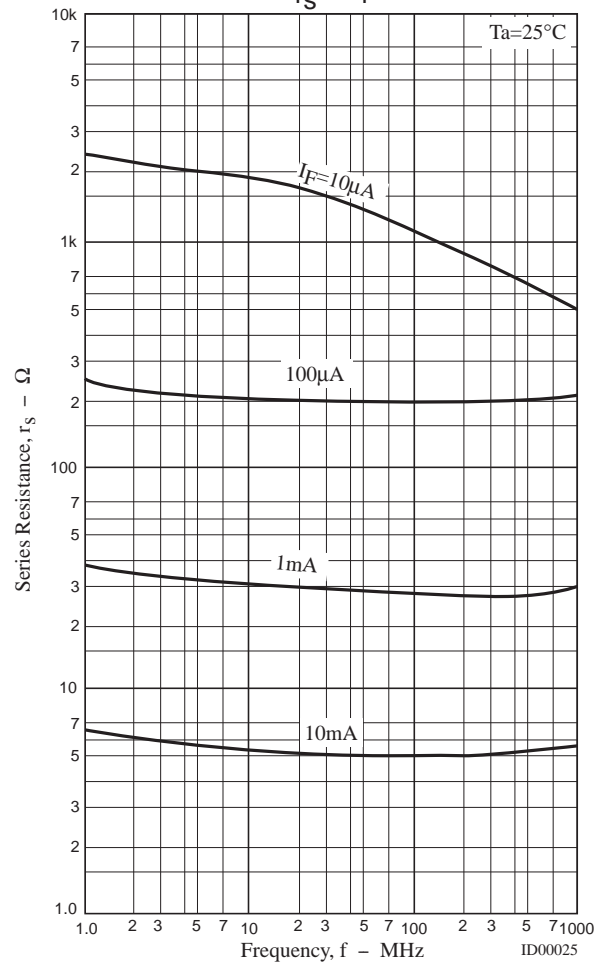
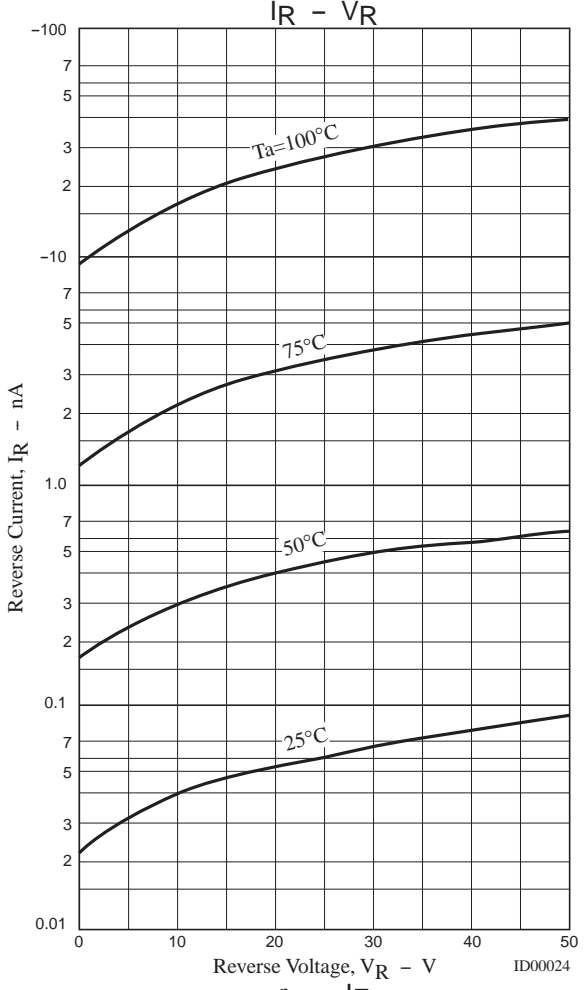
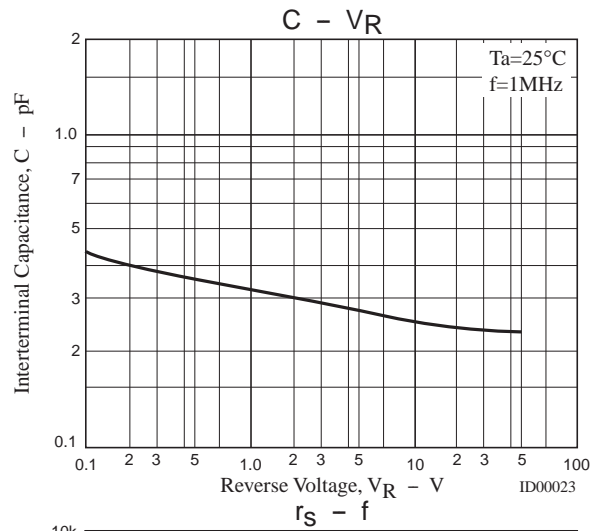
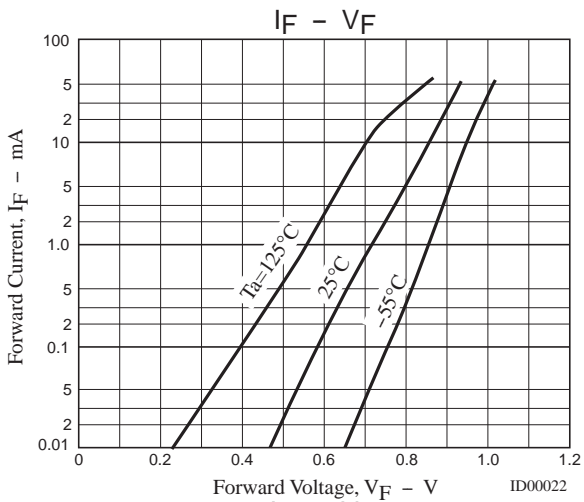
# 1SV233

## Electrical Characteristics at $T_a=25^{\circ}\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=10\mu\text{A}$	50			V
Reverse Current	$I_R$	$V_R=50\text{V}$			0.1	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F=50\text{mA}$		0.95		V
Interterminal Capacitance	C	$V_R=50\text{V}$ , $f=1\text{MHz}$		0.23		pF
Series Resistance	$r_s$	$I_F=10\text{mA}$ , $f=100\text{MHz}$		5		$\Omega$

## Ordering Information

Device	Package	Shipping	memo
1SV233-TB-E	CP	3,000pcs./reel	Pb Free



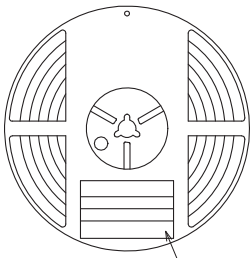
Embossed Taping Specification

1SV233-TB-E

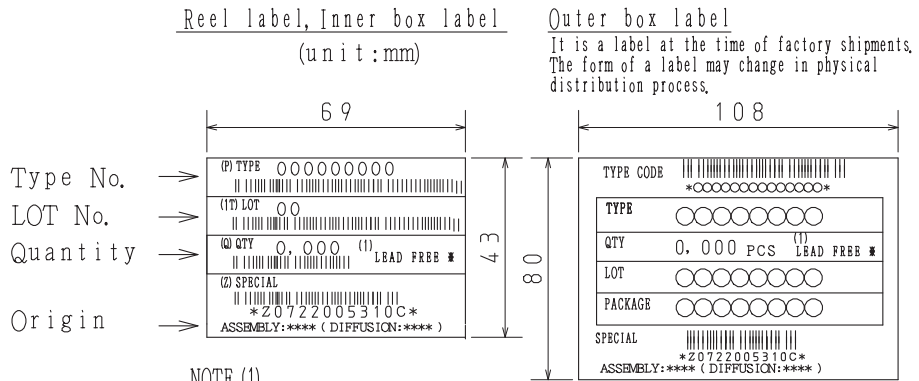
1. Packing Format

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

Packing method



Reel label



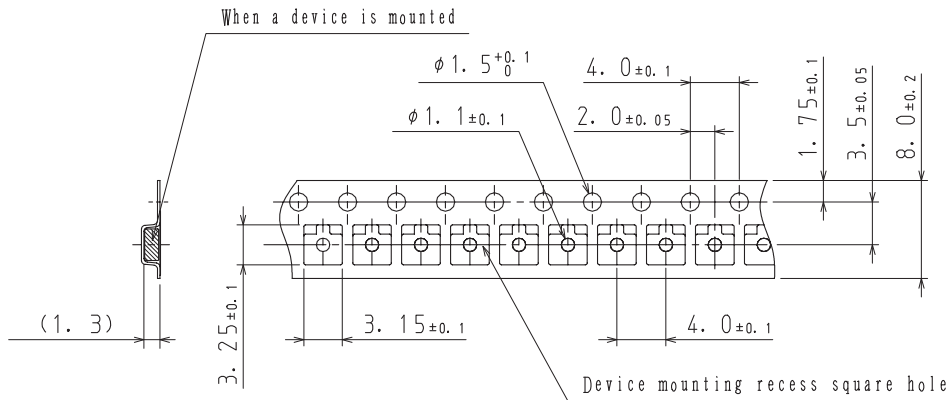
NOTE (1)

The LEAD FREE \* description shows that the surface treatment of the terminal is lead free.

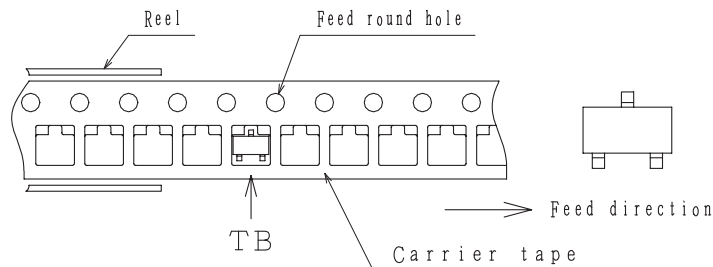
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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



2-2. Device placement direction

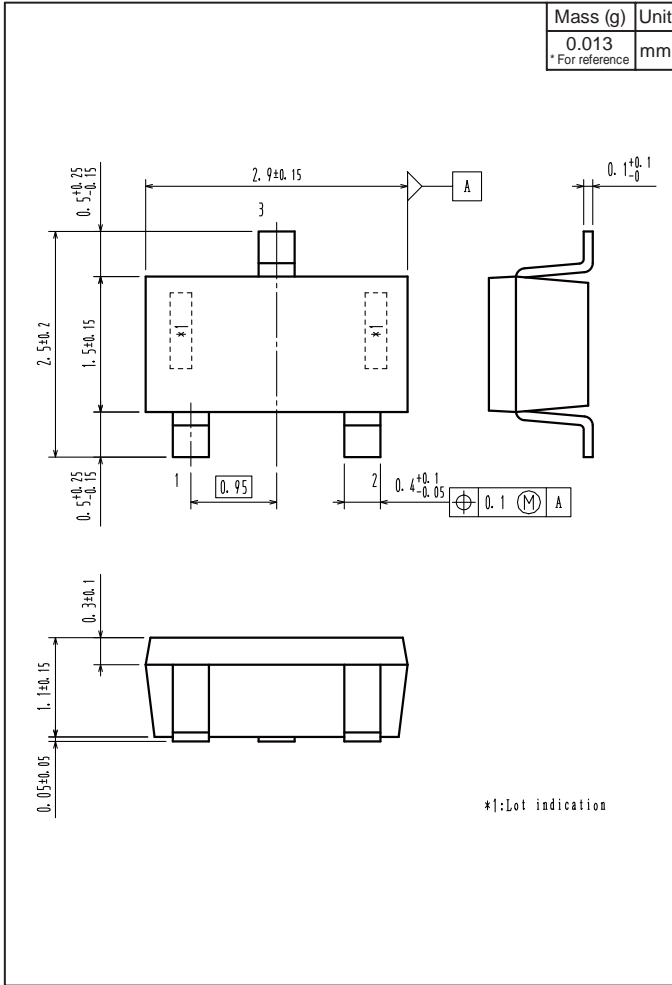


Those with one electrode terminal on the feed hole side.....TB

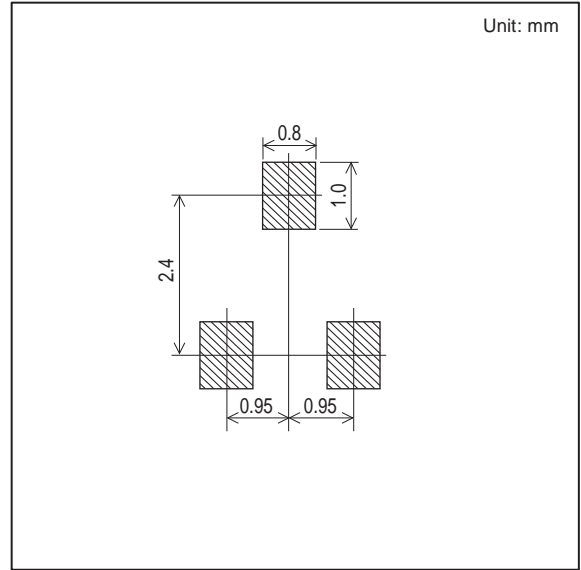
# 1SV233

## Outline Drawing

1SV233-TB-E



## Land Pattern Example



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