



# SBX201C — Schottky Barrier Diode

## S to X-Band Detector, Mixer Applications

### Features

- Small interterminal capacitance (C=0.25pF typ)
- Less parastic components
- Small forward voltage
- Series connection of 2 elements in a small-sized package facilitates high density mounting this goods-applied equipment to be made smaller

### Specifications

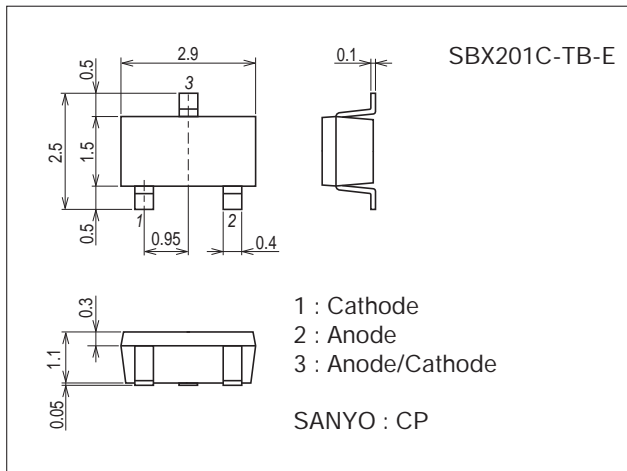
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	$V_R$		2	V
Forward Current	$I_F$		50	mA
Junction Temperature	$T_j$		150	°C
Storage Temperature	$T_{stg}$		-55 to +150	°C

### Package Dimensions

unit : mm (typ)

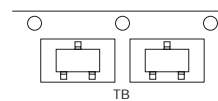
7013A-015



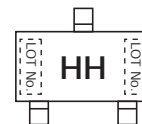
### Product & Package Information

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

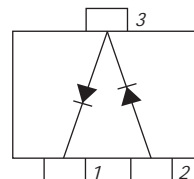
### Packing Type: TB



### Marking



### Electrical Connection



# SBX201C

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

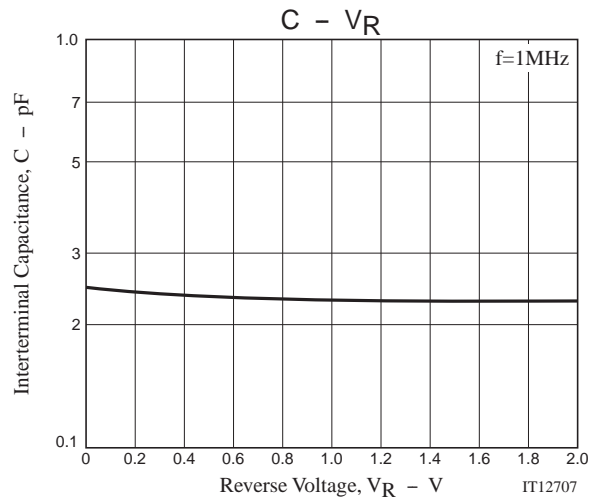
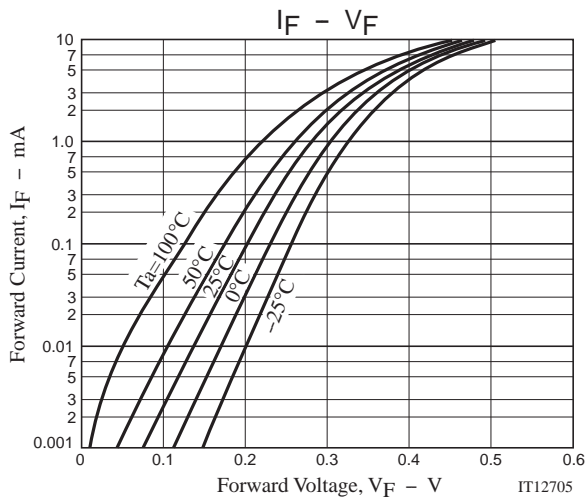
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=10\mu\text{A}$	2			V
Forward Voltage	$V_F$	$I_F=1\text{mA}$			320	mV
Series Resistance	$R_S$	$I_F=10\text{mA}$		14	18	$\Omega$
Interterminal Capacitance	C	$V_R=0\text{V}, f=1\text{MHz}$		0.25	0.28	pF

Note 1) The specifications shown above for each individual diode.

Note 2) Pay attention to handling since it is liable to be affected by static electricity due to the high-frequency process adopted.

## Ordering Information

Device	Package	Shipping	memo
SBX201C-TB-E	CP	3,000pcs./reel	Pb Free



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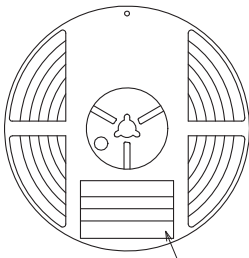
## Embossed Taping Specification

SBX201C-TB-E

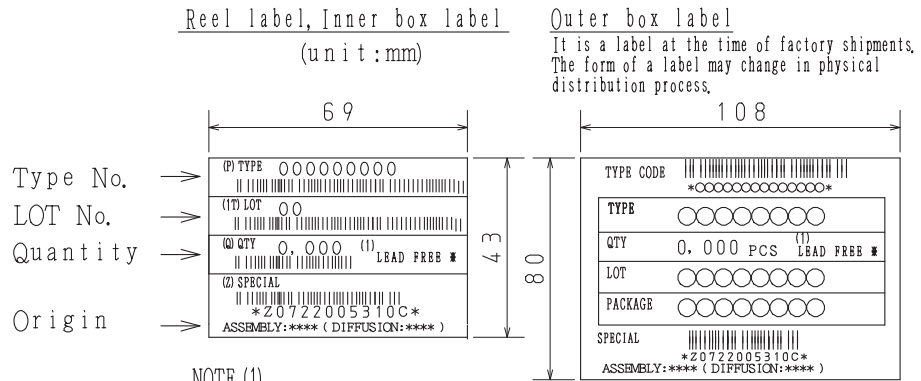
### 1. Packing Format

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



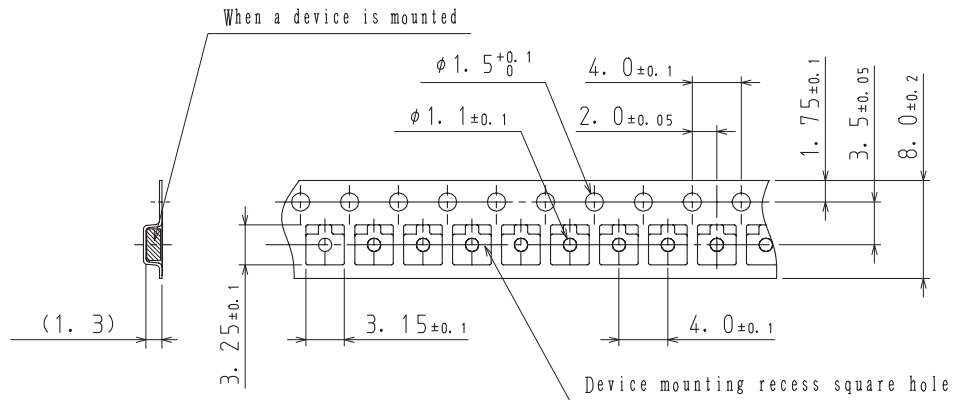
#### NOTE (1)

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

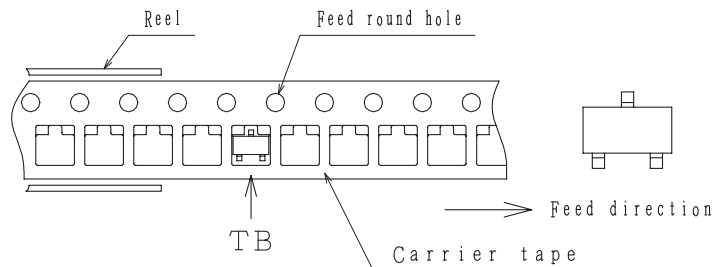
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

### 2. Taping configuration

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



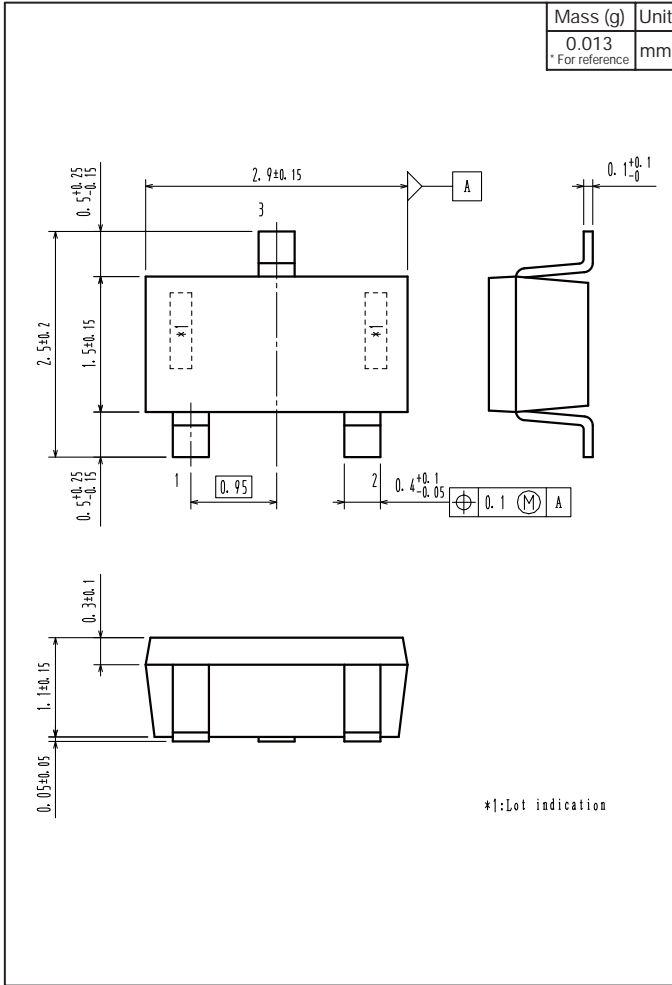
#### 2-2. Device placement direction



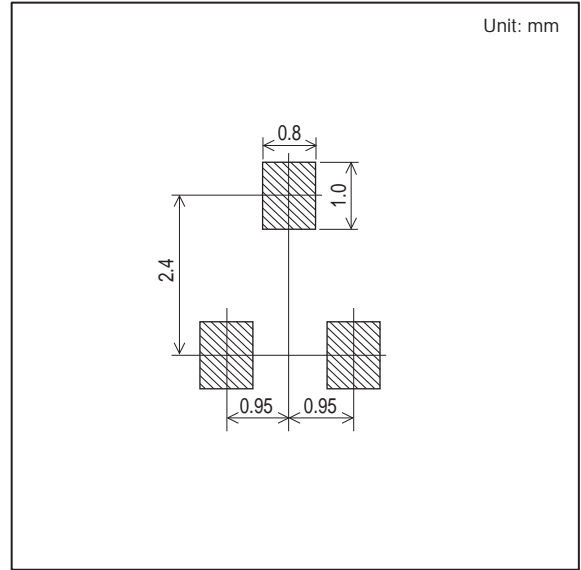
Those with one electrode terminal on the feed hole side.....TB

# SBX201C

## Outline Drawing SBX201C-TB-E



## Land Pattern Example



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