



SBX201C

Schottky Barrier Diode

Dual Series Schottky Barrier Diode for Mixer and Detector
2V, 50mA, 0.25pF, CP

ON Semiconductor®

<http://onsemi.com>

Features

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

Specifications

Absolute Maximum Ratings at Ta=25°C

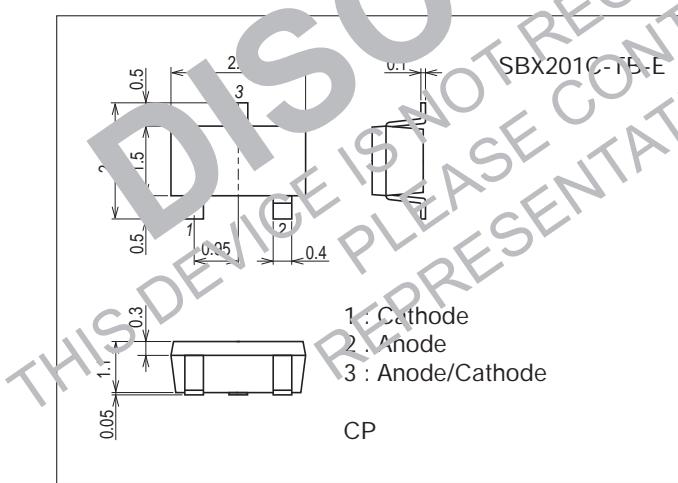
Parameter	Symbol	Condition	Ratings	Unit
Reverse Voltage	VR		2	V
Forward Current	IF		50	mA
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

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 Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ)

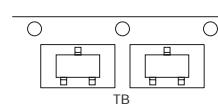
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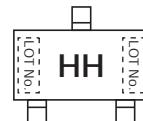
Product & Package Information

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

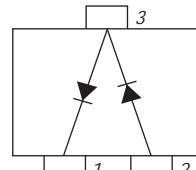
Packing Type: TB



Marking



Electrical Connection



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	Ω
Interterminal Capacitance	C	$V_R=0\text{V}$, $f=1\text{MHz}$		0.25	0.28	pF

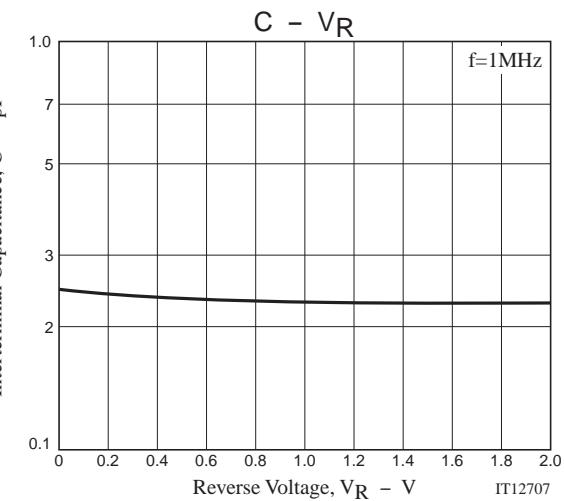
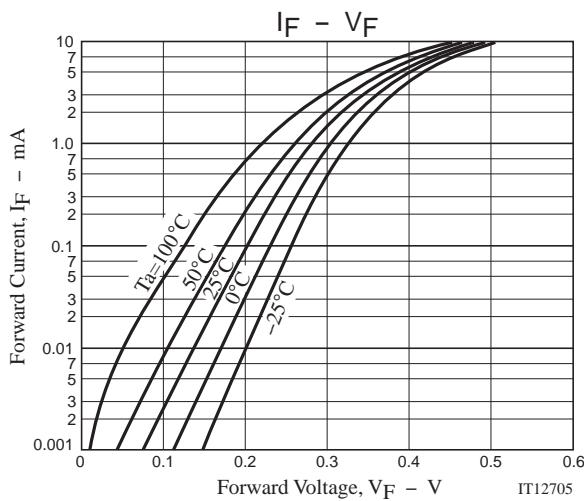
Note 1) The specifications shown above for each individual diode.

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

DISCONTINUED
 THIS DEVICE IS NOT RECOMMENDED FOR NEW DESIGN
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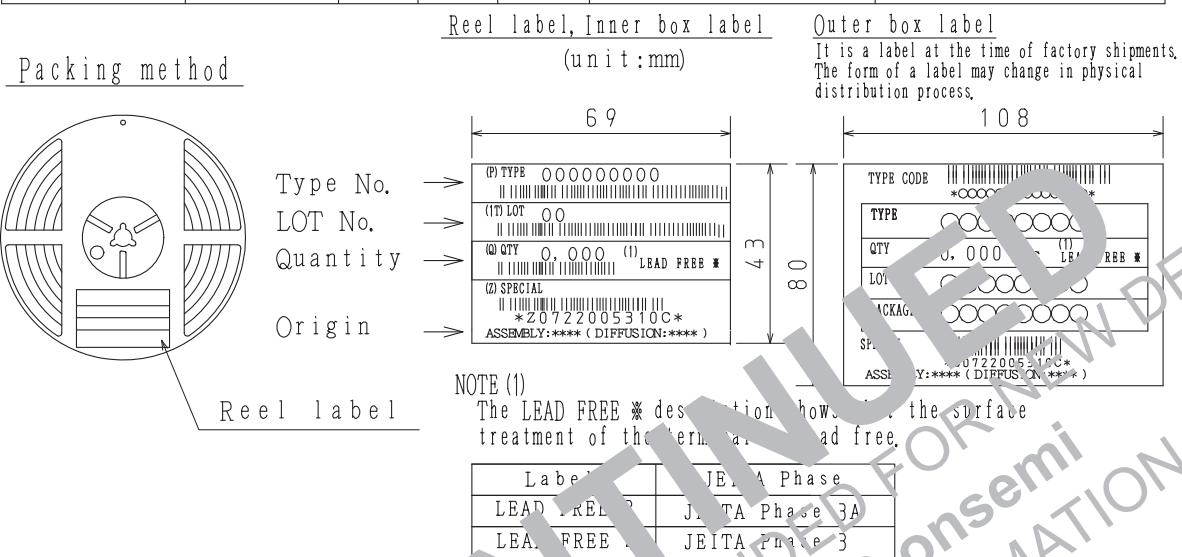


Embossed Taping Specification

SBX201C-TB-E

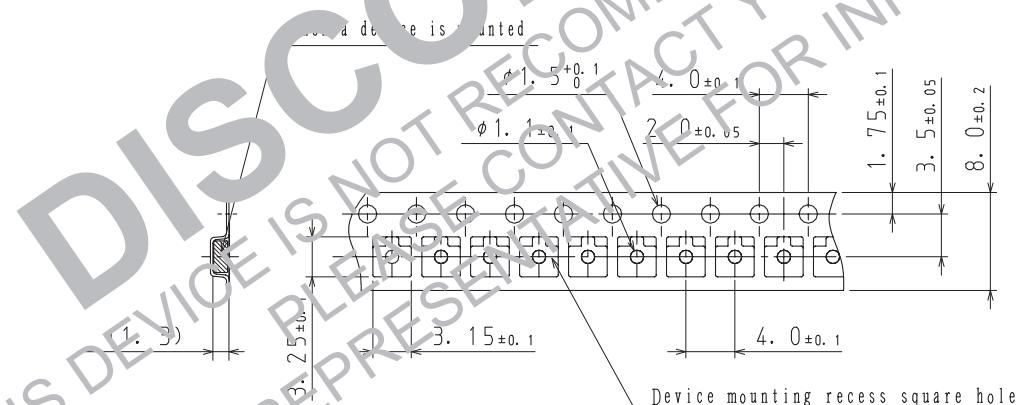
1. Packing Format

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

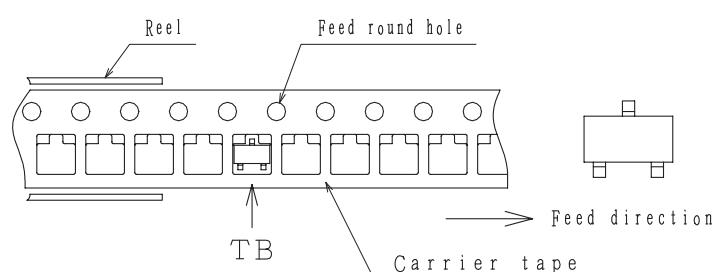


2. Taping configuration

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

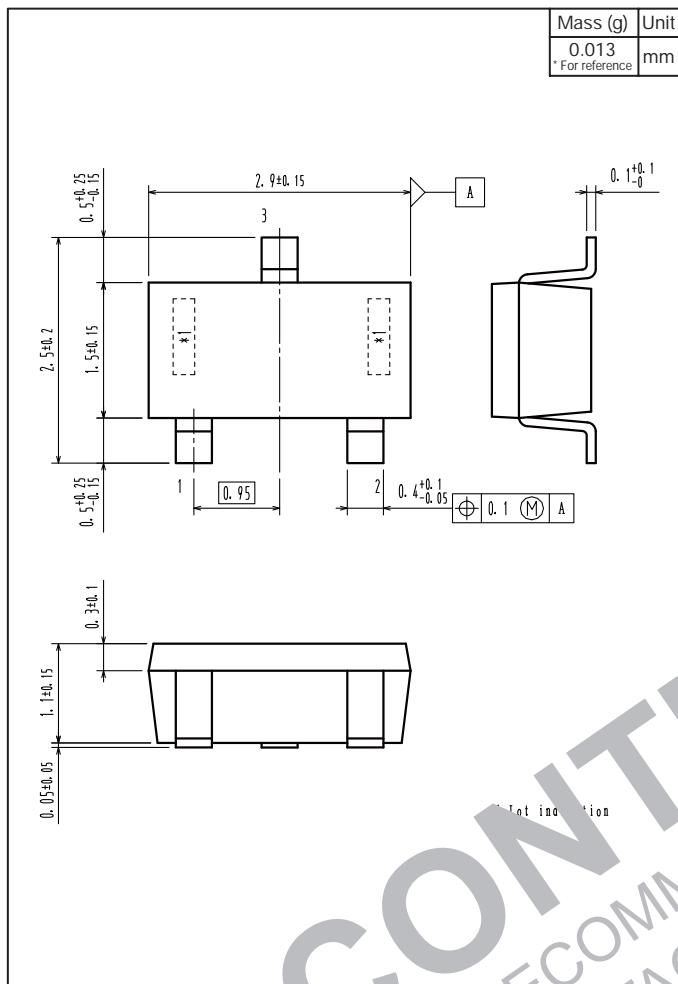


2-2. Device placement direction

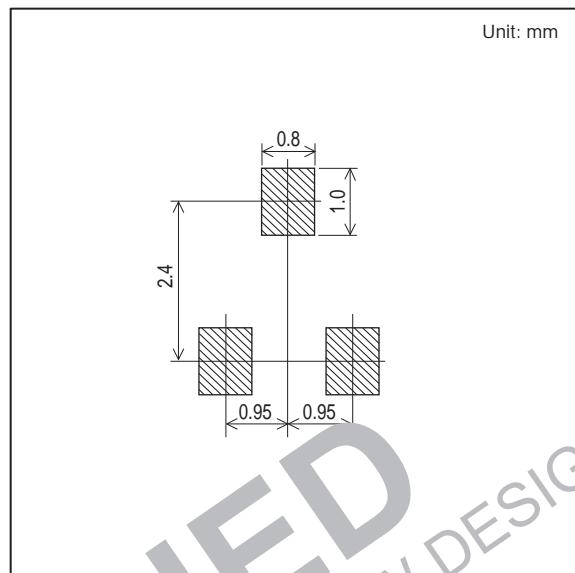


Outline Drawing

SBX201C-TB-E



Land Pattern Example



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