



**THE DATASHEET OF
SBX201C-L-TB-E**





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 parastic components
- Small forward voltage
- Series connection of 2 elements in a small-sized package facilitates high density mounting and goods-applied equipment to be made smaller

Specifications

Absolute Maximum Ratings at Ta=25°C

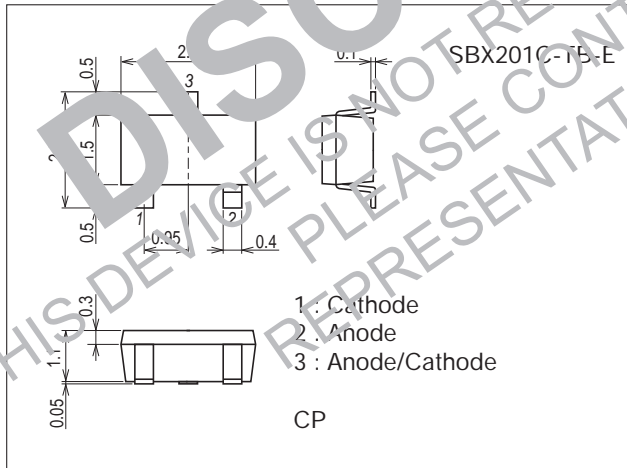
Parameter	Symbol	Conditions	Rating	Unit
Reverse Voltage	V _R		2	V
Forward Current	I _F		50	mA
Junction Temperature	T _j		150	°C
Storage Temperature	T _{stg}		-55 to 150	°C

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 the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ)

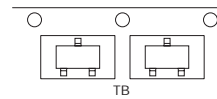
7013A-015



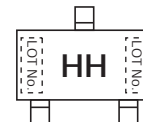
Product & Package Information

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

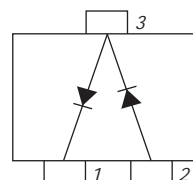
Packing Type: TB



Marking



Electrical Connection



SBX201C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V _R	I _R =10μA	2			V
Forward Voltage	V _F	I _F =1mA			320	mV
Series Resistance	R _S	I _F =10mA		14	18	Ω
Interterminal Capacitance	C	V _R =0V, f=1MHz		0.25	0.28	pF

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

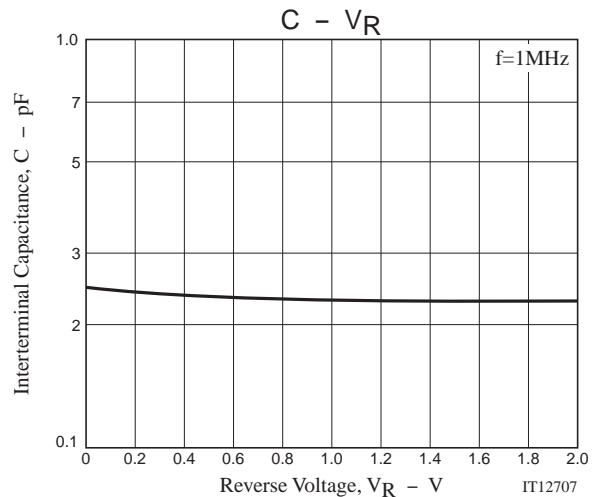
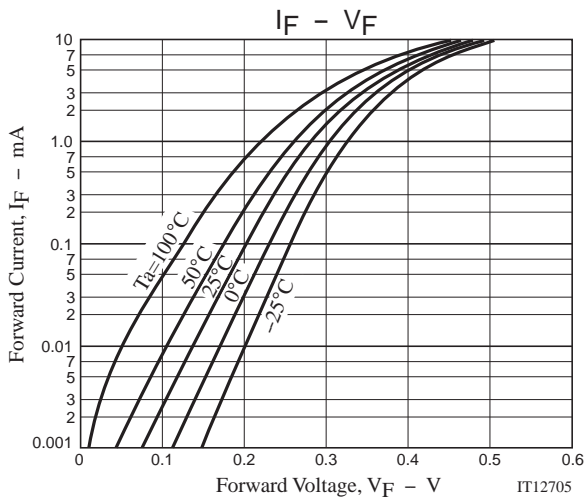
Note 2) Pay attention to handling since it is liable to be affected by static electricity due to the high-frequency process adopted.

Ordering Information

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

DISCONTINUED

THIS DEVICE IS NOT RECOMMENDED FOR NEW DESIGN
PLEASE CONTACT YOUR onsemi REPRESENTATIVE FOR INFORMATION



Embossed Taping Specification

SBX201C-TB-E

1. Packing Format

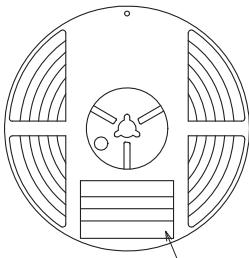
Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
CP	CP	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210

Reel label, Inner box label
(unit:mm)

Outer box label

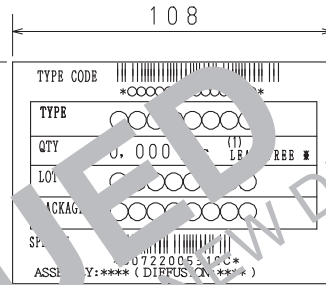
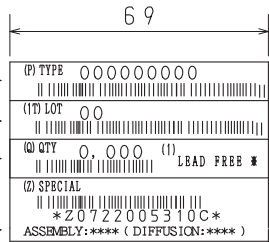
It is a label at the time of factory shipments.
The form of a label may change in physical distribution process.

Packing method



Reel label

Type No.
LOT No.
Quantity
Origin



NOTE (1)

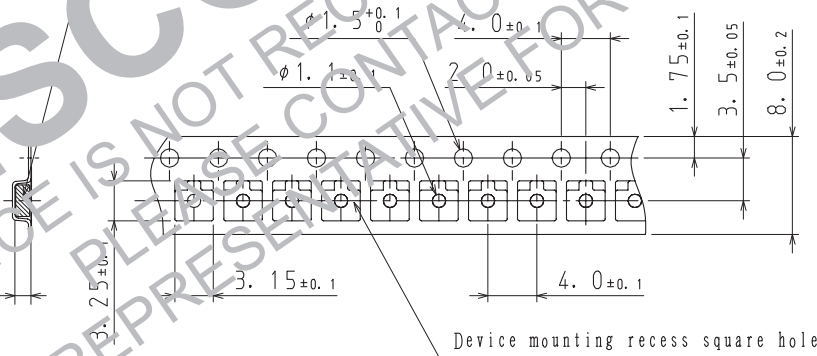
The LEAD FREE * description shows the surface treatment of the terminal is lead free.

LEAD FREE	JEITA Phase 3
LEAD FREE *	JEITA Phase 3A
LEAD FREE #	JEITA Phase 3

2. Taping configuration

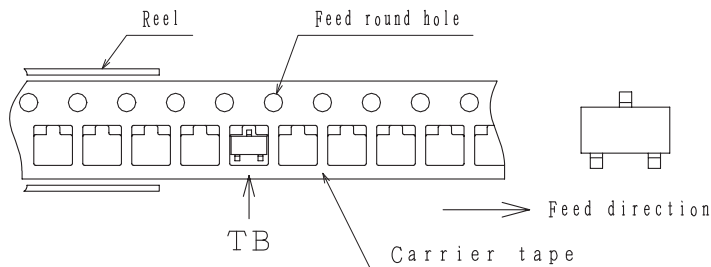
2-1. Carrier tape size (unit:mm)

When a device is mounted



Device mounting recess square hole

2-2. Device placement direction

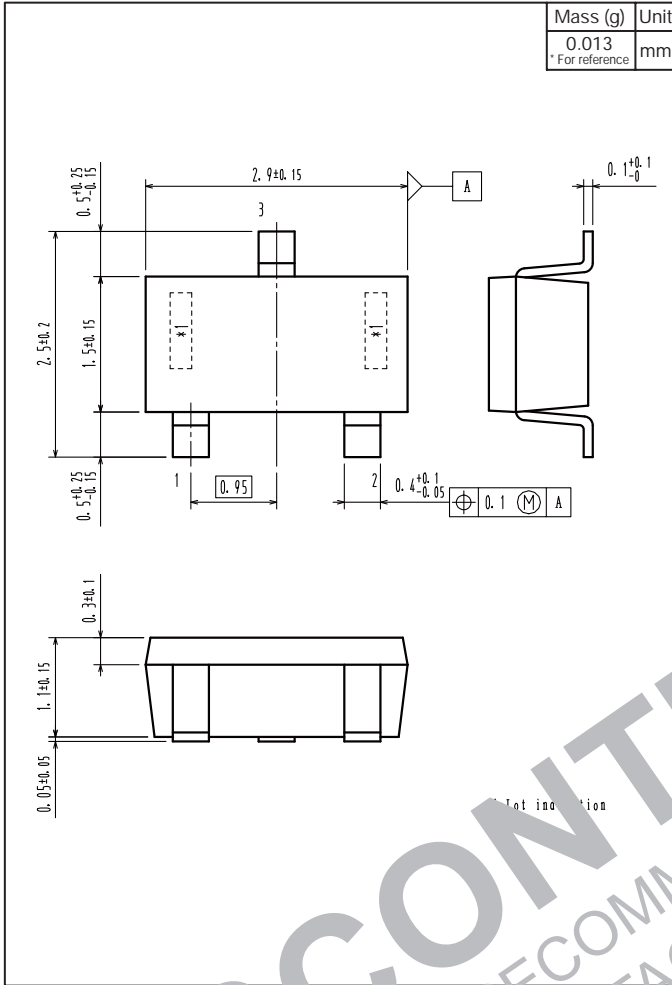


Those with one electrode terminal on the feed hole side.....TB

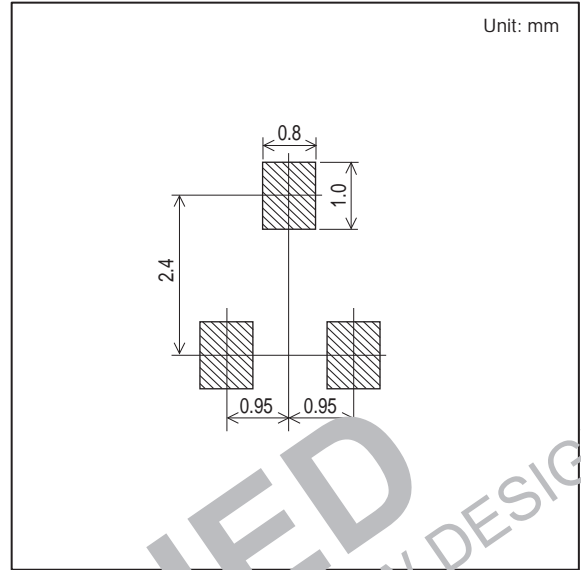
SBX201C

Outline Drawing

SBX201C-TB-E



Land Pattern Example



DISCONTINUED



THIS DEVICE IS NOT RECOMMENDED FOR NEW DESIGN
PLEASE CONTACT YOUR onsemi REPRESENTATIVE FOR INFORMATION

DISCONTINUED
THIS DEVICE IS NOT RECOMMENDED FOR NEW DESIGN
PLEASE CONTACT YOUR onsemi
REPRESENTATIVE FOR INFORMATION

ON Semiconductor and the ON logo are registered trademarks of Semiconductor Components Industries, LLC (SCILLC). SCILLC owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of SCILLC's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. SCILLC reserves the right to make changes without further notice to any products herein. SCILLC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does SCILLC assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in SCILLC data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. SCILLC does not convey any license under its patent rights nor the rights of others. SCILLC products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the SCILLC product could create a situation where personal injury or death may occur. Should Buyer purchase or use SCILLC products for any such unintended or unauthorized application, Buyer shall indemnify and hold SCILLC and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that SCILLC was negligent regarding the design or manufacture of the part. SCILLC is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View SBX201C-L-TB-E on WIN SOURCE](#)
-  [ON Semiconductor](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management