



1SS351

Schottky Barrier Diode

Dual Series Schottky Barrier Diode for Mixer and Detector
5V, 30mA, 0.69pF, CP

ON Semiconductor®
<http://onsemi.com>

Features

- Series connection of 2 elements in a small-sized package facilitates high-density mounting and permits 1SS351-applied equipment to be made smaller
- Small interterminal capacitance ($C=0.69\text{pF}$ typ)
- Small forward voltage ($V_F=0.23\text{V}$ max)

Specifications

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

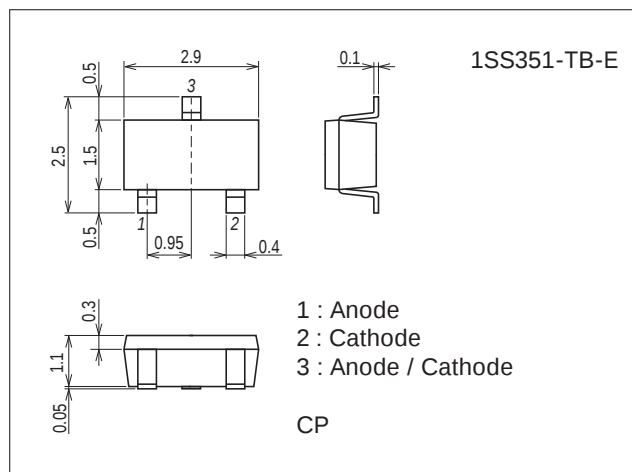
Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}		5	V
Forward Current	I_F		30	mA
Junction Temperature	T_j		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

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)

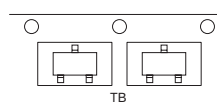
7013A-003



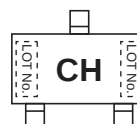
Product & Package Information

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

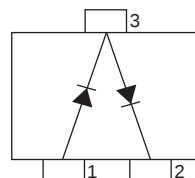
Packing Type: TB



Marking



Electrical Connection



1SS351

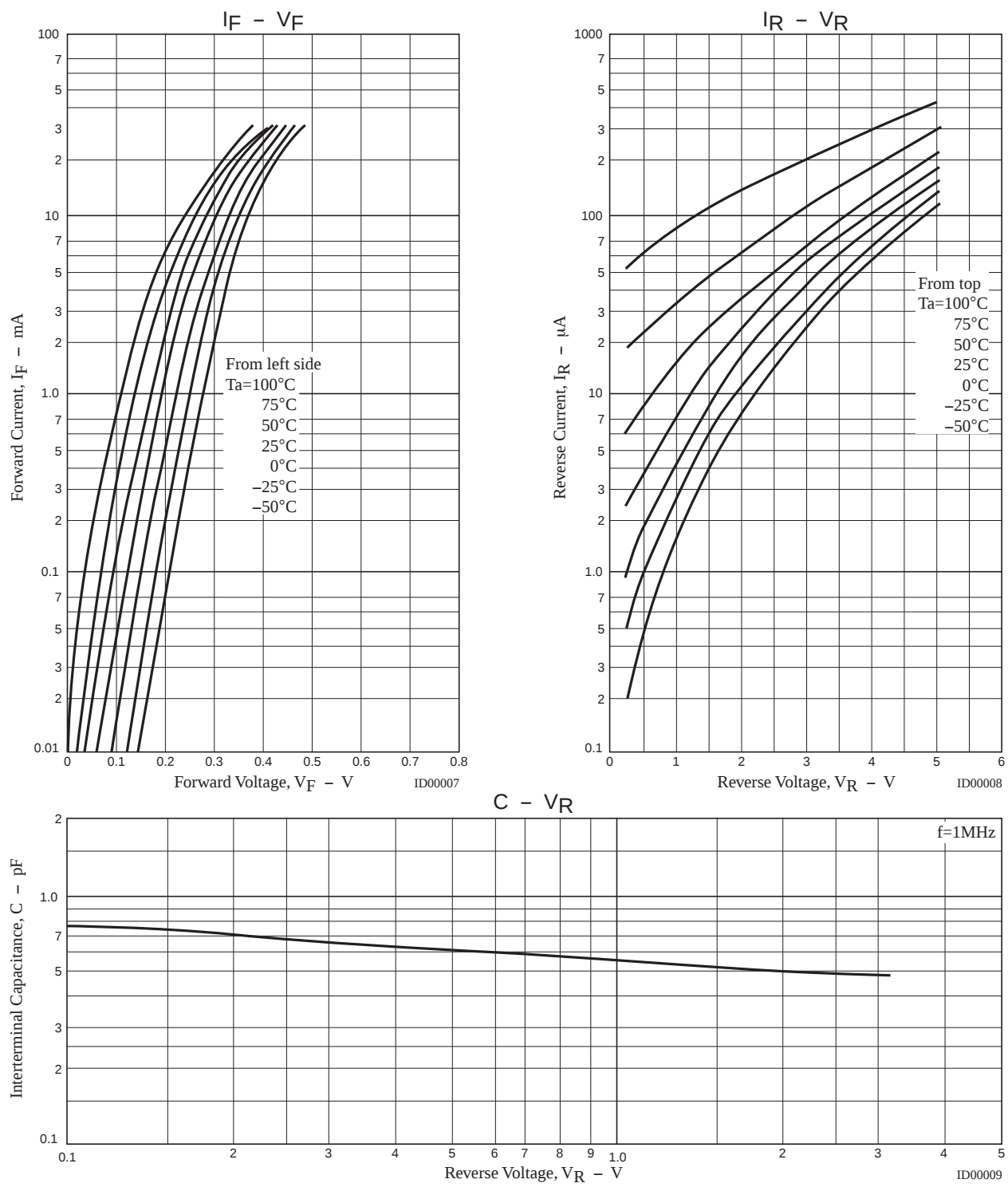
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V _F	I _F =1mA			0.23	V
Forward Current	I _F	V _F =0.5V	30			mA
Reverse Current	I _R	V _R =0.5V			25	μA
Interterminal Capacitance	C	V _R =0.2V, f=1MHz		0.69	0.9	pF

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

Ordering Information

Device	Package	Shipping	memo
1SS351-TB-E	CP	3,000pcs./reel	Pb Free



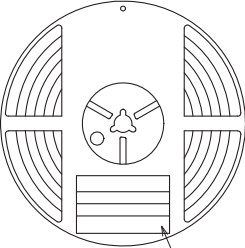
Embossed Taping Specification

1SS351-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

Reel label, Inner box label (unit:mm)

Type No.	(P) TYPE 000000000
LOT No.	(17) LOT 00
Quantity	(W) QTY 0,000 (1) LEAD FREE *
Origin	(Q) SPECIAL *Z0722005310C* ASSEMBLY:**** (DIFFUSION:****)

Outer box label

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

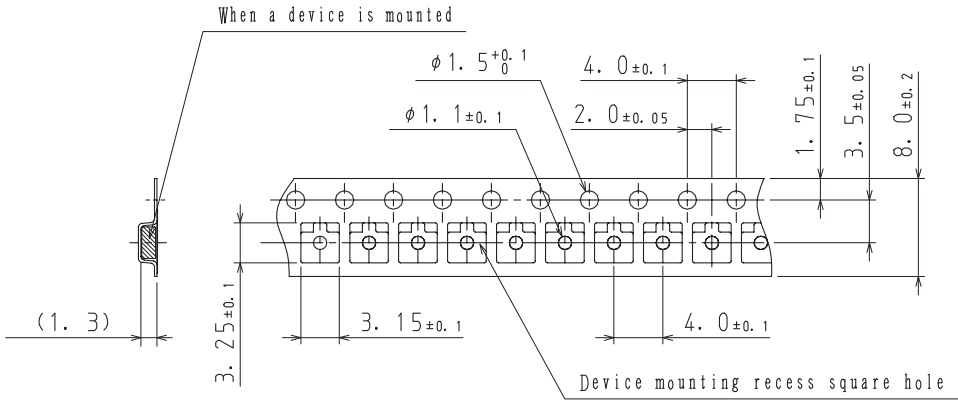
TYPE CODE	*000000000000*
TYPE	00000000
QTY	0,000 PCS (1) LEAD FREE *
LOT	00000000
PACKAGE	00000000
SPECIAL	*Z0722005310C* ASSEMBLY:**** (DIFFUSION:****)

NOTE (1)
The LEAD FREE * description shows that the surface treatment of the terminal is lead free.

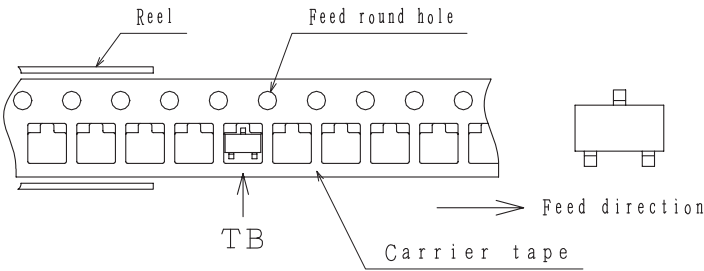
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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

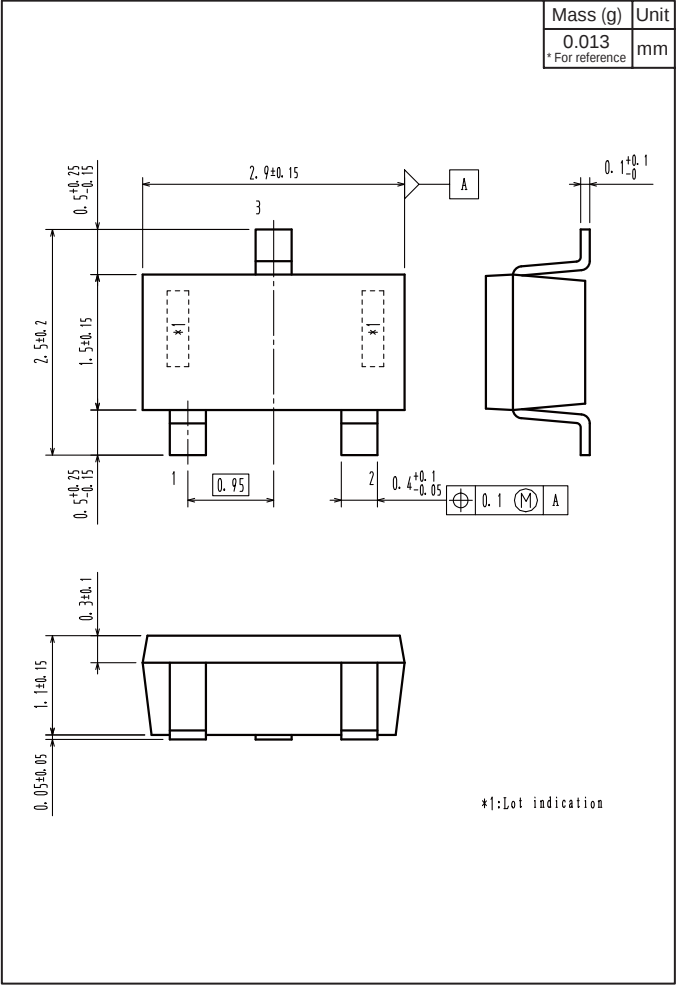


2-2. Device placement direction

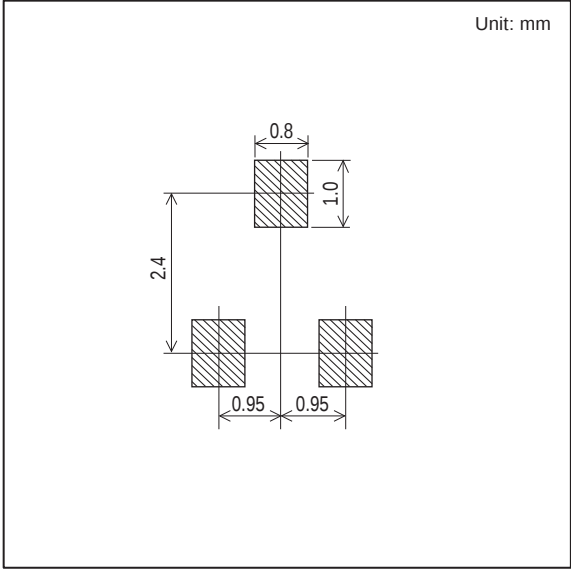


Those with one electrode terminal on the feed hole side.....TB

Outline Drawing
1SS351-TB-E



Land Pattern Example



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