



SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

1SS351 — Silicon Epitaxial Schottky Barrier Diode

UHF Detector, Mixer Applications

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

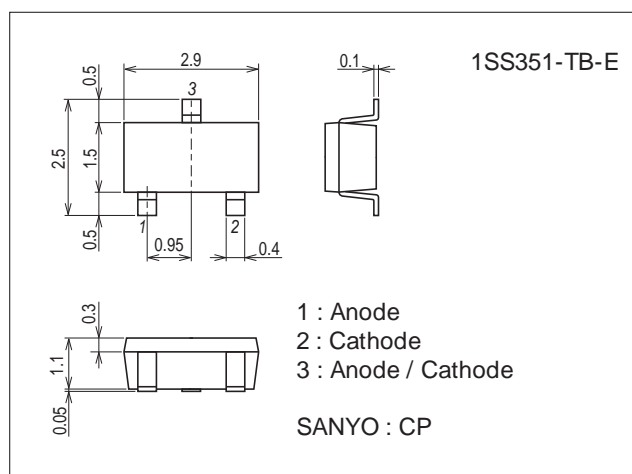
Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

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	$^\circ\text{C}$

Package Dimensions

unit : mm (typ)

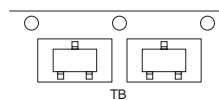
7013A-003



Product & Package Information

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

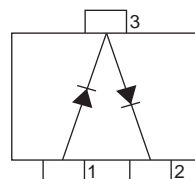
Packing Type: TB



Marking



Electrical Connection



1SS351

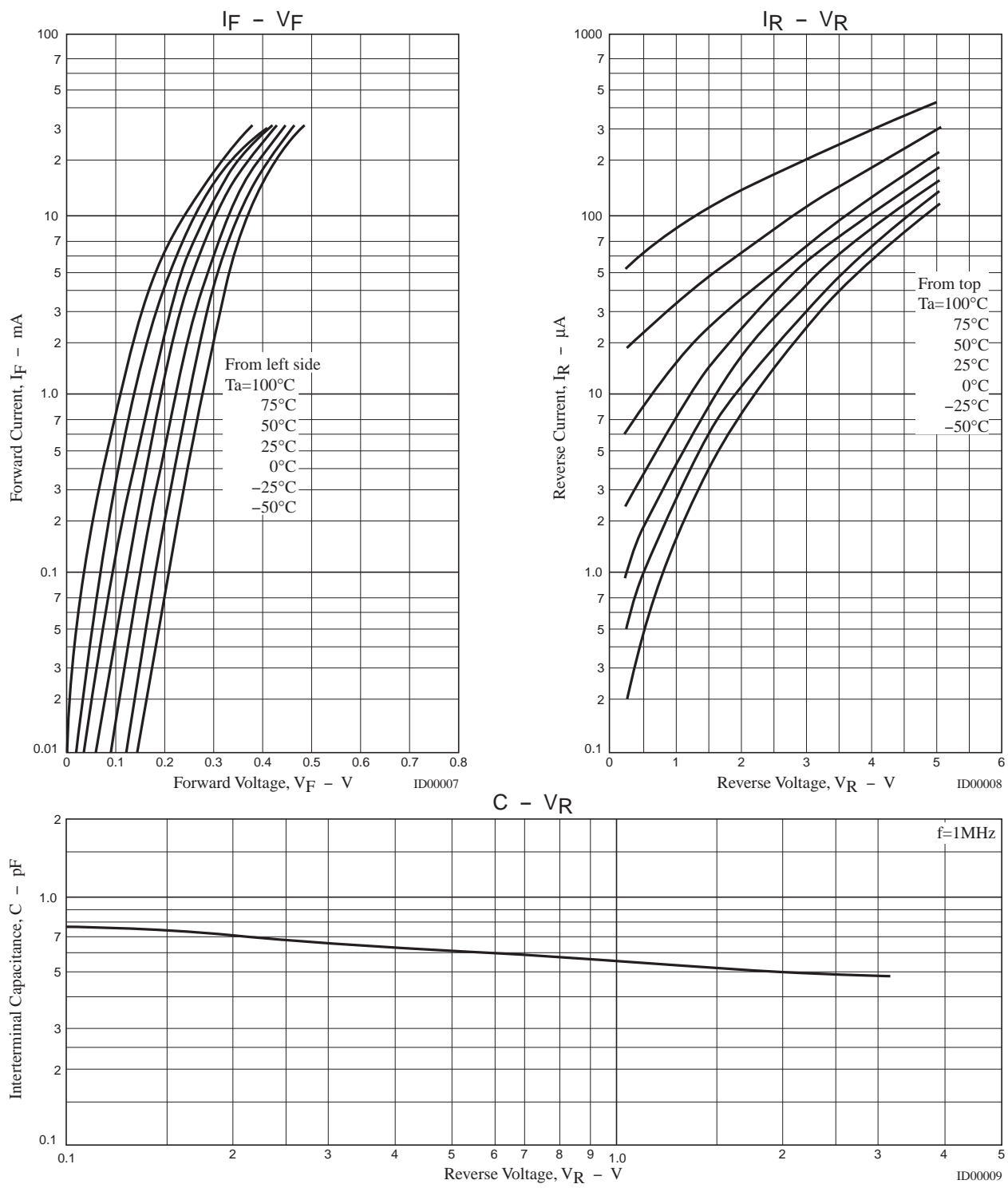
Electrical Characteristics at Ta=25°C

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

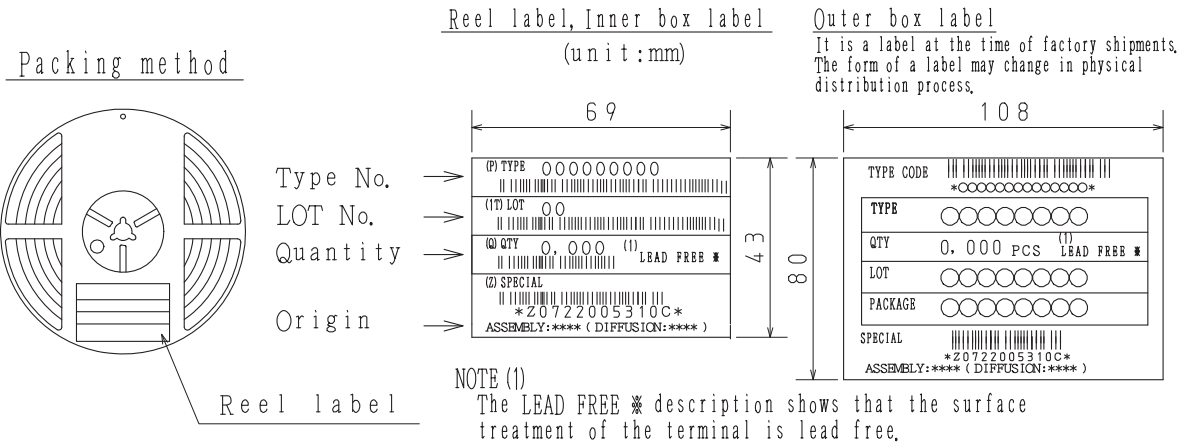


Embossed Taping Specification

1SS351-TB-E

1. Packing Format

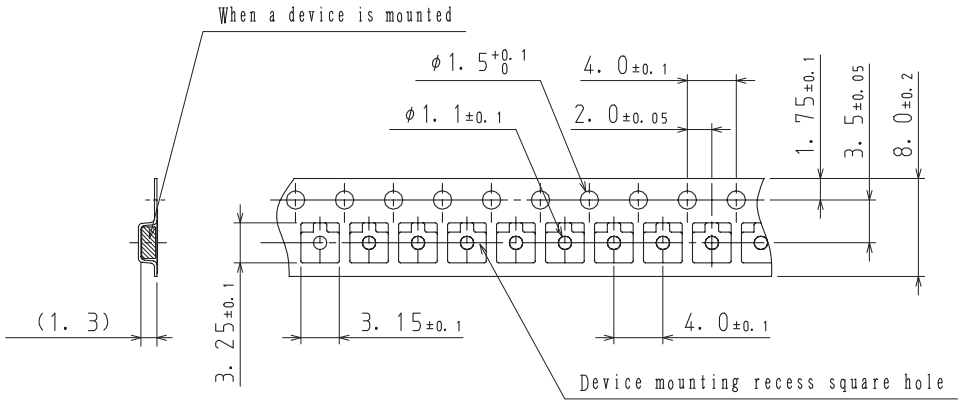
Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
CP	CP	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210



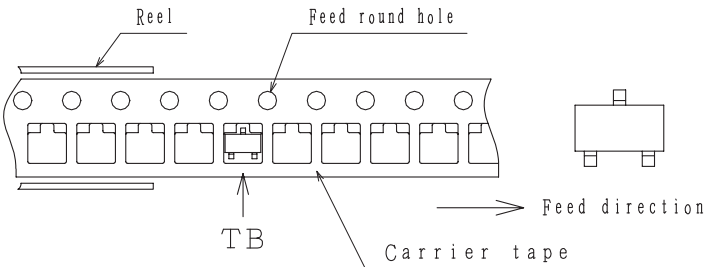
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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

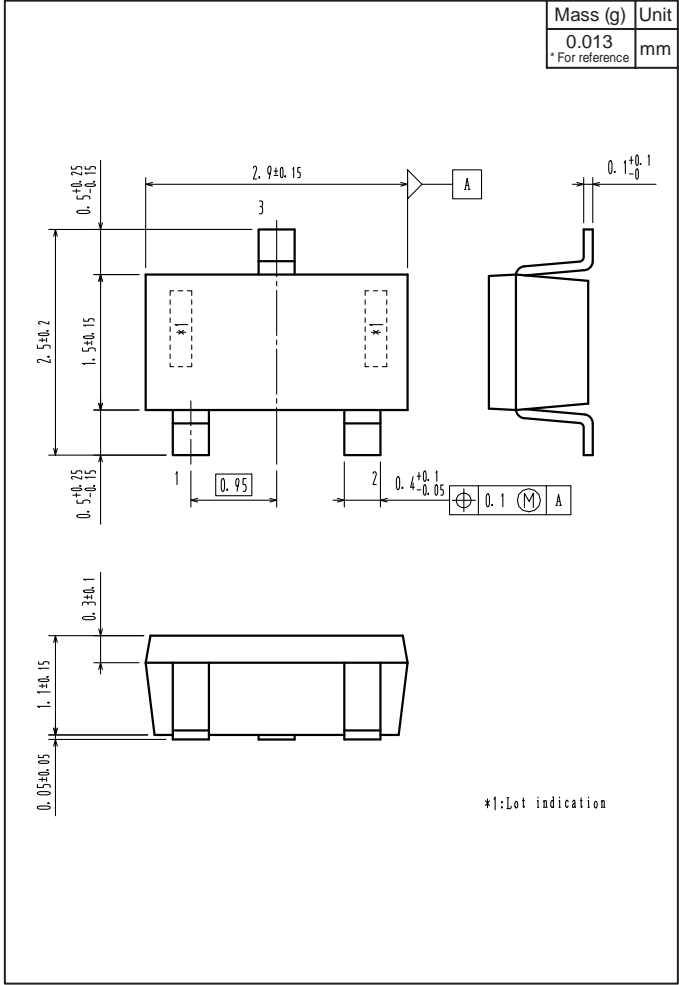


2-2. Device placement direction

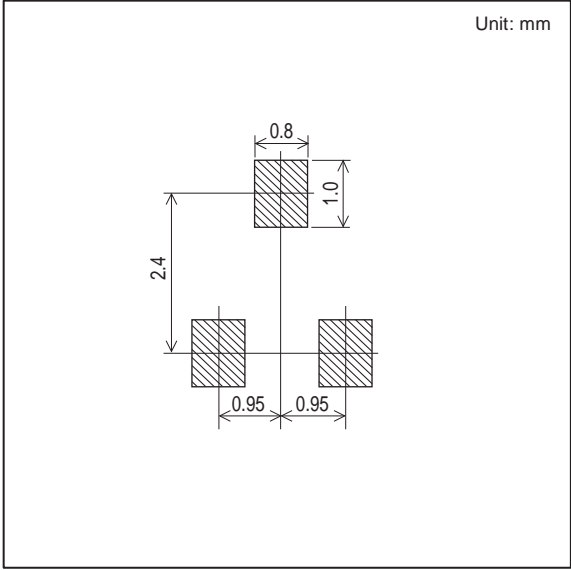


Those with one electrode terminal on the feed hole side.....TB

Outline Drawing
1SS351-TB-E



Land Pattern Example



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