



SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

1SV315 — Silicon Epitaxial Pin Diode Variable resistance Attenuator Use

Features

- Ultrasmall-sized package facilitates high-density mounting and permits 1SV315-applied equipment to be made smaller
- Small interterminal capacitance ($C=0.23\text{pF}$ typ)

Specifications

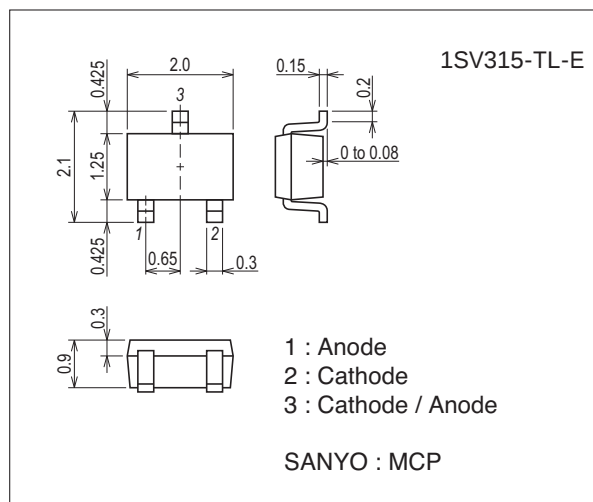
Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		50	V
Forward Current	I_F		50	mA
Allowable Power Dissipation	P		100	mW
Junction Temperature	T_j		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Package Dimensions

unit : mm (typ)

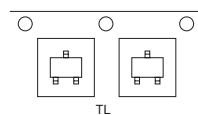
7023A-007



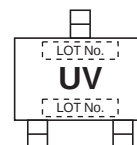
Product & Package Information

- Package : MCP
- JEITA, JEDEC : SC-70, SOT-323
- Minimum Packing Quantity : 3,000 pcs./reel

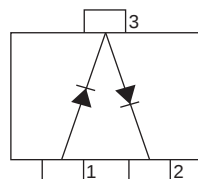
Packing Type: TL



Marking



Electrical Connection



1SV315

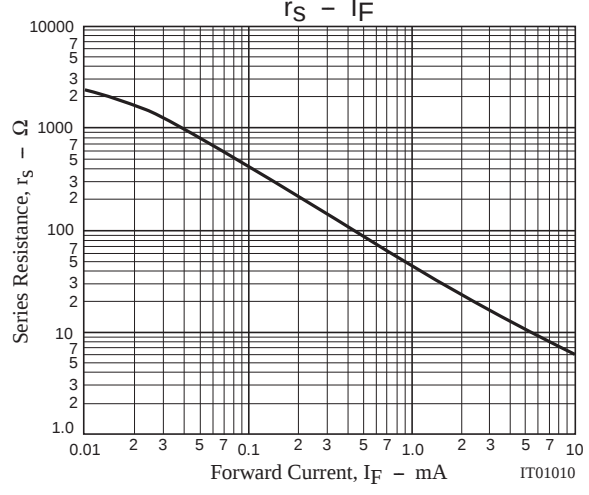
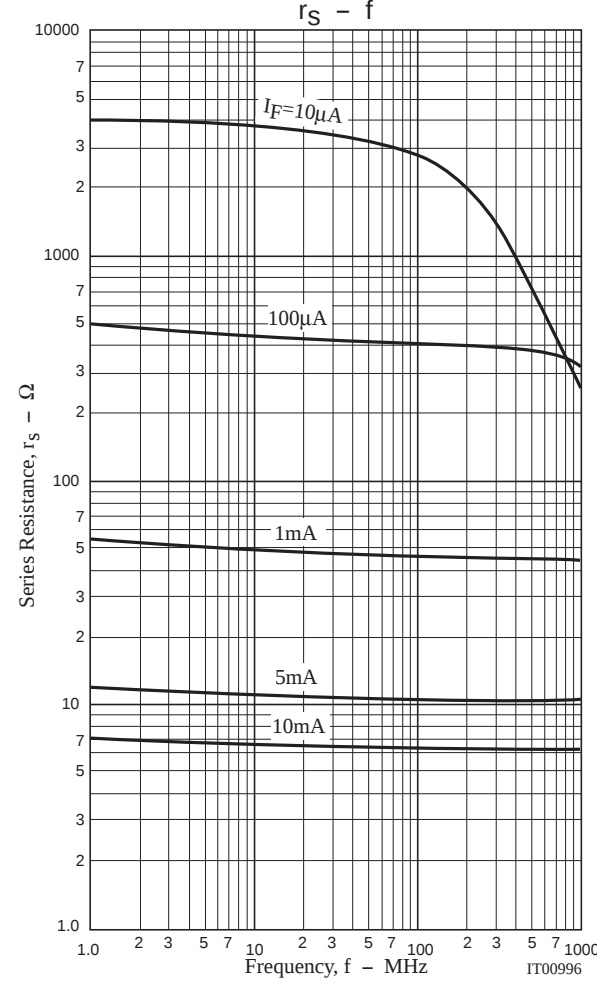
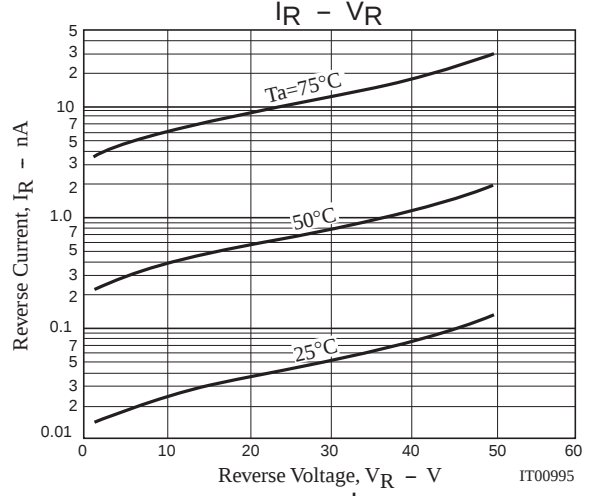
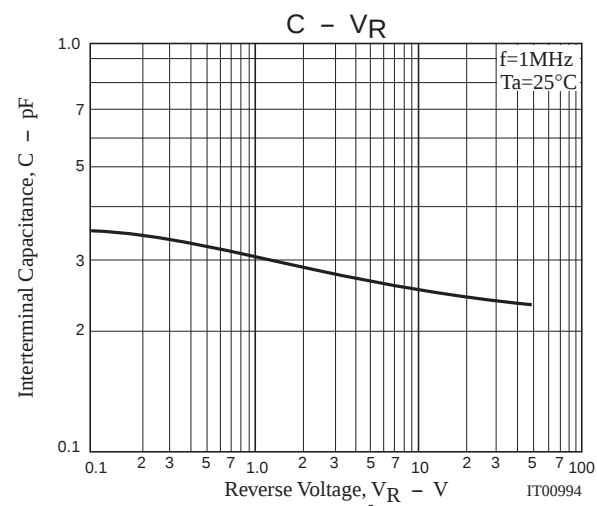
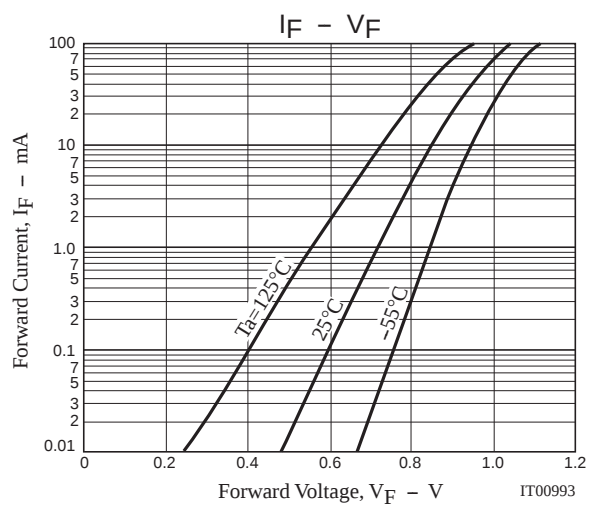
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=10\mu A$	50			V
Reverse Current	I_R	$V_R=50V$			0.1	μA
Forward Voltage	V_F	$I_F=50mA$		0.95	1.0	V
Interterminal Capacitance	C	$V_R=50V, f=1MHz$		0.23		pF
Series Resistance	r_s	$I_F=10\mu A, f=100MHz$		2400		Ω
		$I_F=10mA, f=100MHz$	4	6	9	Ω

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

Ordering Information

Device	Package	Shipping	memo
1SV315-TL-E	MCP	3,000pcs./reel	Pb Free

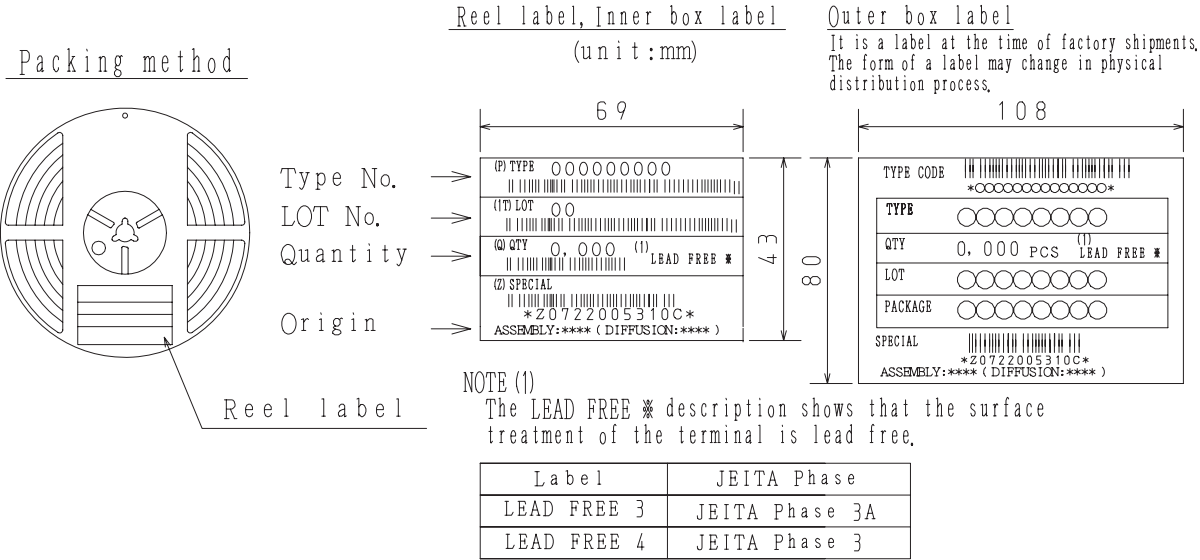


Embossed Taping Specification

1SV315-TL-E

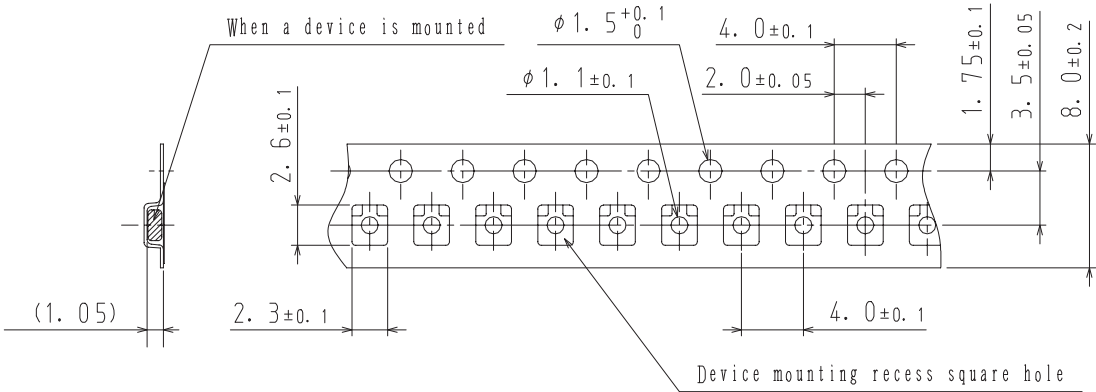
1. Packing Format

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)
MCP	MCP	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

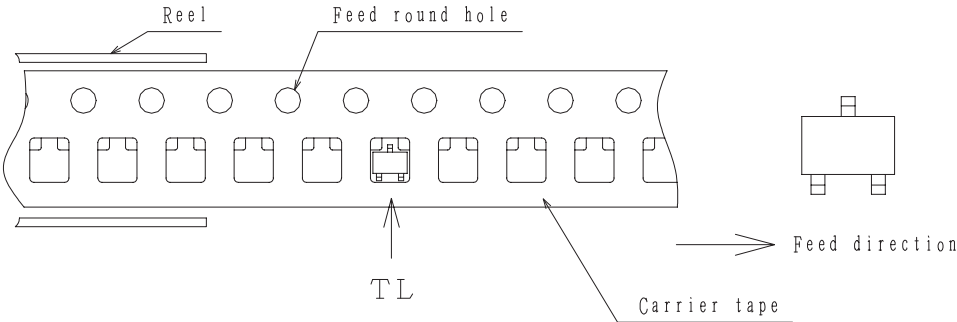


2. Taping configuration

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

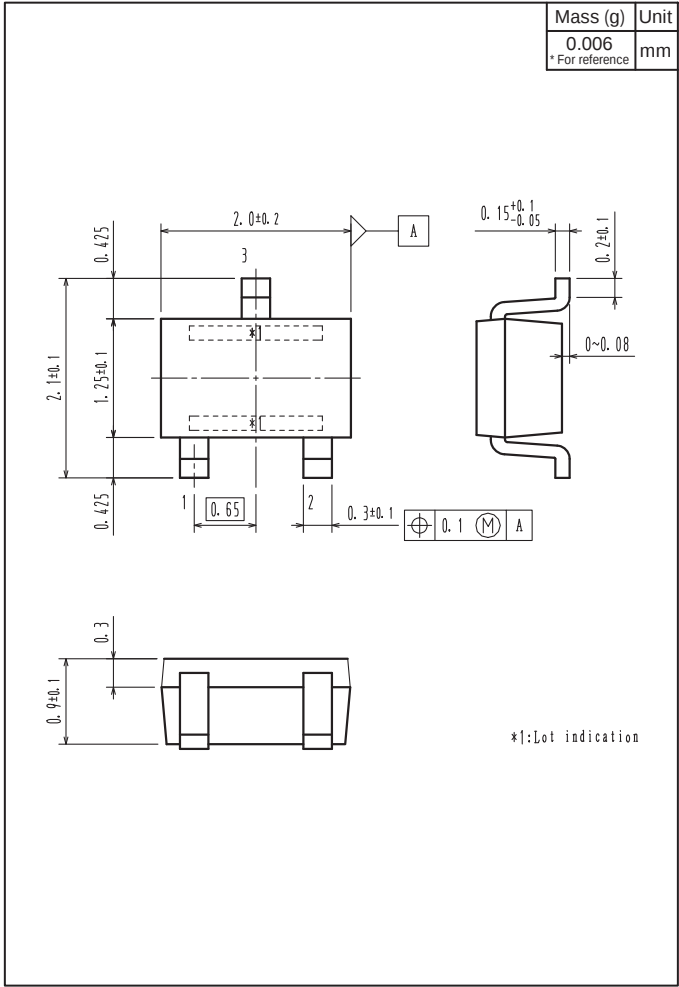


2-2. Device placement direction

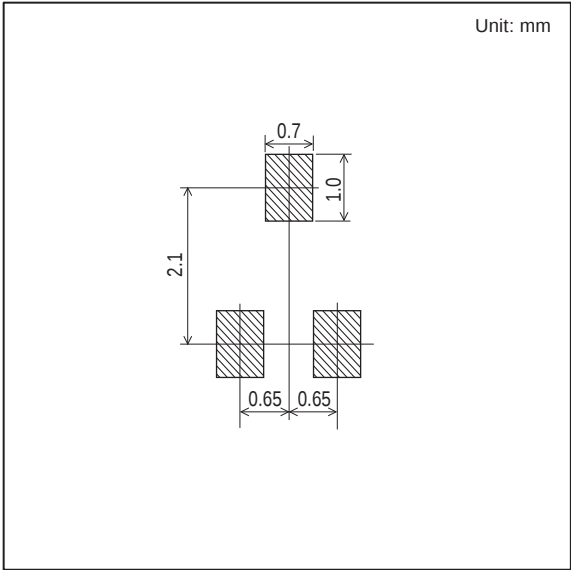


Those with oen electrode terminal on the feed hole side.....TL

Outline Drawing
1SV315-TL-E



Land Pattern Example



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