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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 1SV263

## PIN Diode

Single PIN Diode for VHF, UHF and AGC  
50V, 50mA,  $r_s = \text{typ } 2.5\Omega$ , MCP

ON Semiconductor®

<http://onsemi.com>

### Features

- Ultrasmall-sized package facilitates high-density mounting and permits 1SV263-applied equipment to be made smaller
- Small interterminal capacitance ( $C = 0.23\text{pF typ}$ )
- Small forward series resistance ( $r_s = 2.5\Omega \text{ typ}$ )

### Specifications

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

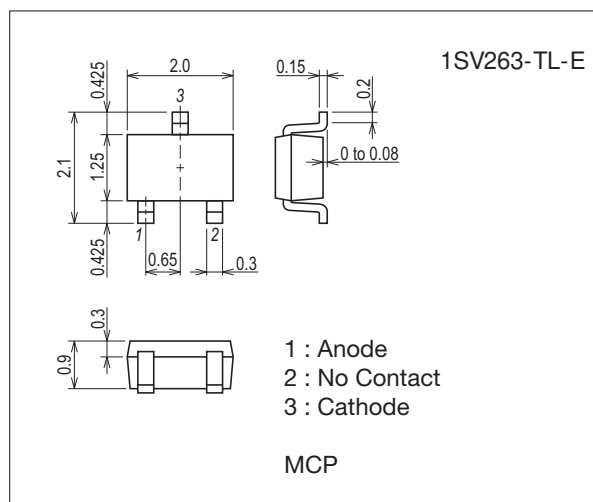
Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	$V_R$		50	V
Forward Current	$I_F$		50	mA
Allowable Power Dissipation	P		100	mW
Junction Temperature	$T_j$		125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +125	$^\circ\text{C}$

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)

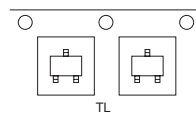
7023A-005



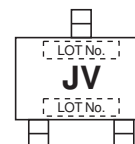
### Product & Package Information

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

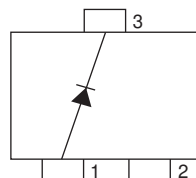
### Packing Type: TL



### Marking



### Electrical Connection

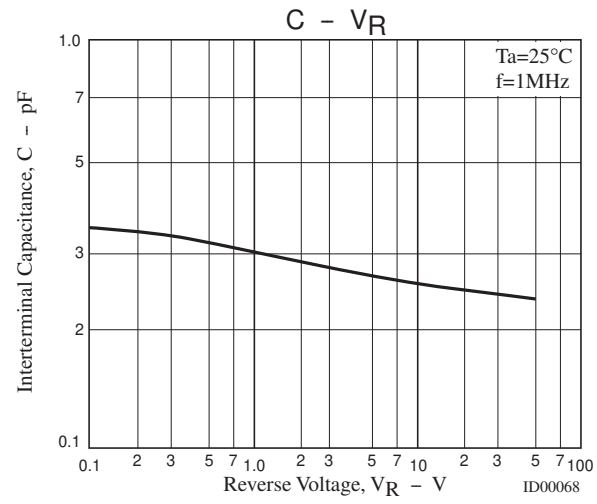
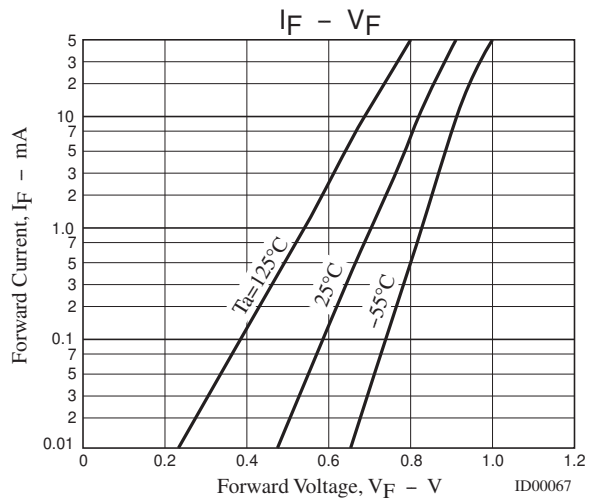


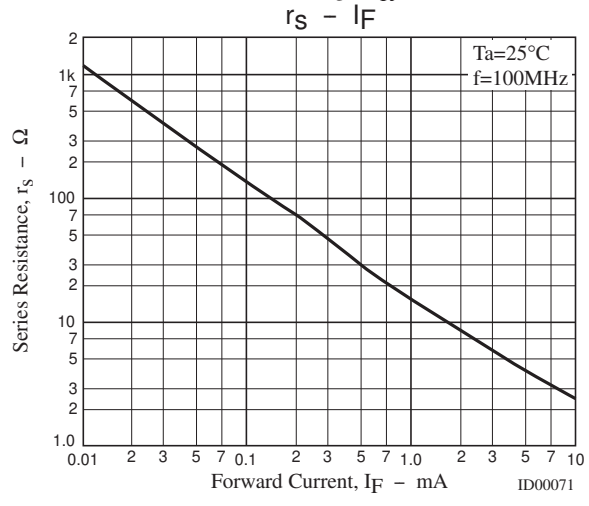
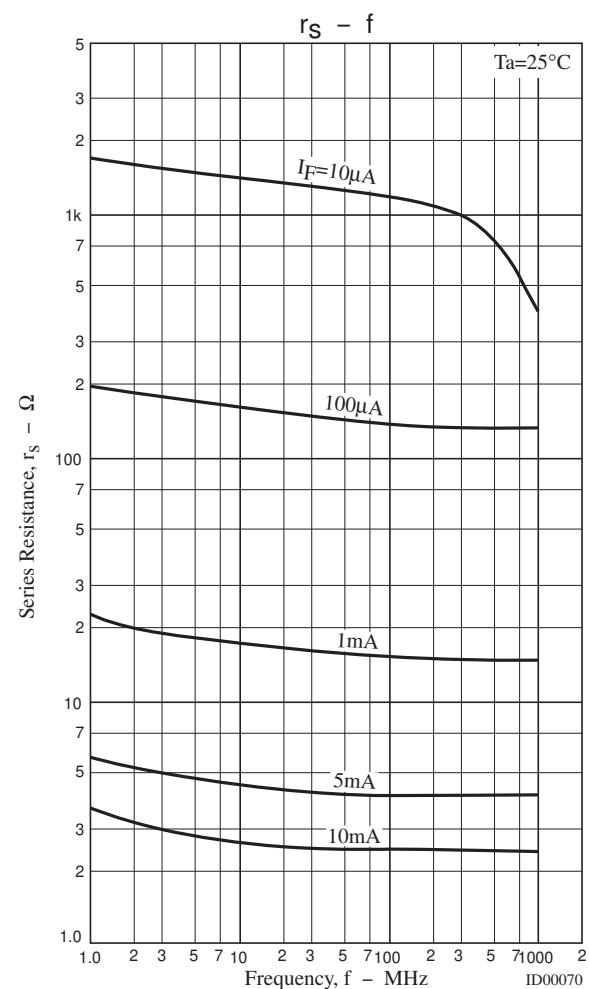
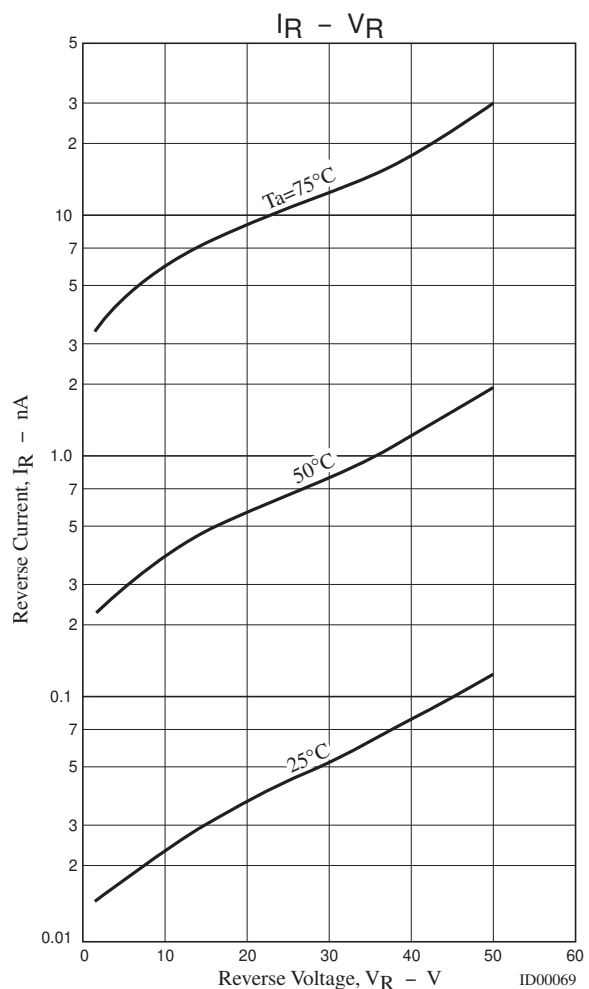
Electrical Characteristics at Ta=25°C

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	$\mu A$
Forward Voltage	$V_F$	$I_F=50mA$		0.91	0.95	V
Interterminal Capacitance	C	$V_R=50V, f=1MHz$		0.23	0.4	pF
Series Resistance	$r_s$	$I_F=5mA, f=100MHz$		4.0	8.0	$\Omega$
		$I_F=10mA, f=100MHz$		2.5	4.5	$\Omega$

Ordering Information

Device	Package	Shipping	memo
1SV263-TL-E	MCP	3,000pcs./reel	Pb Free



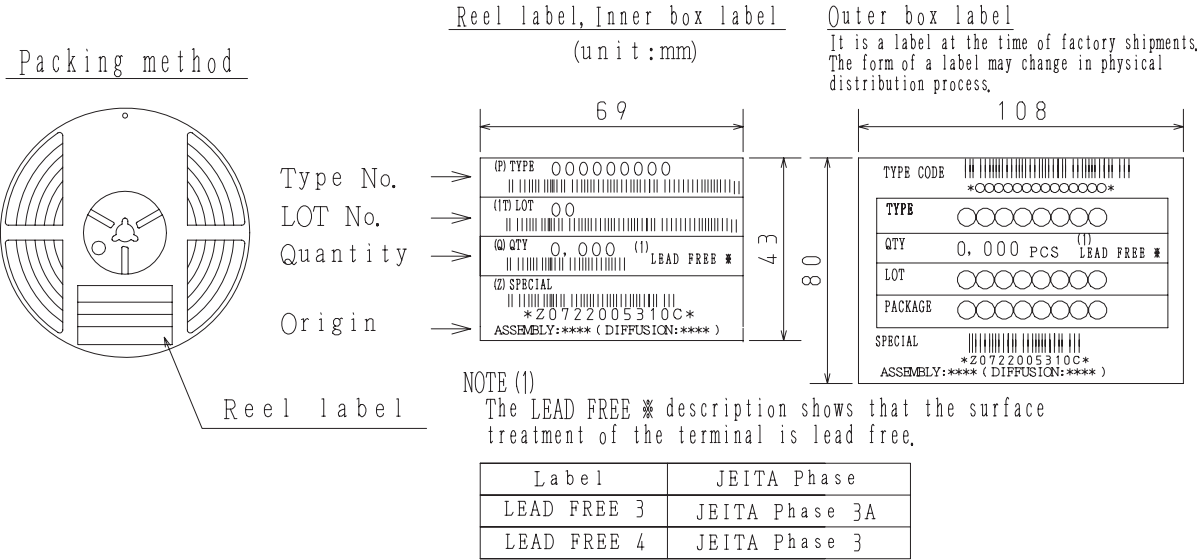


Embossed Taping Specification

1SV263-TL-E

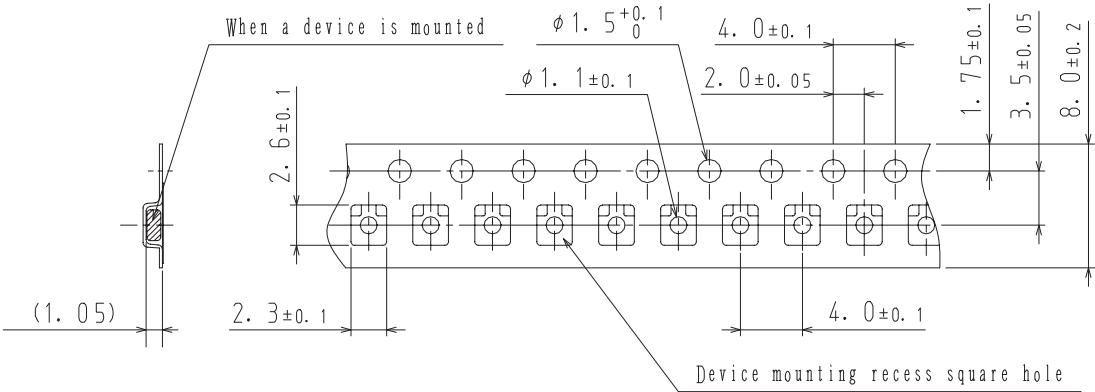
1. Packing Format

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

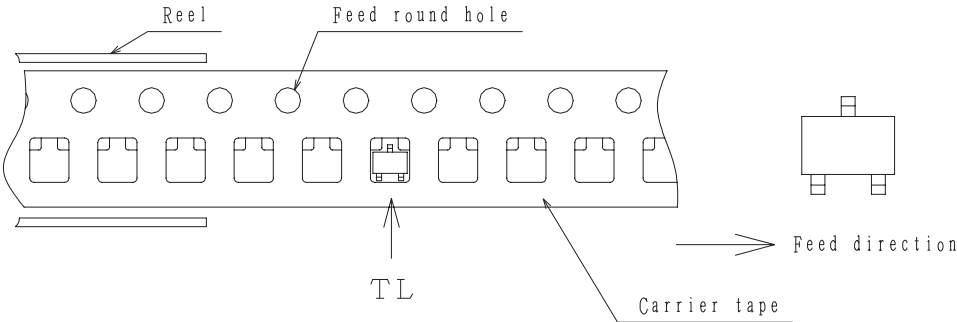


2. Taping configuration

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



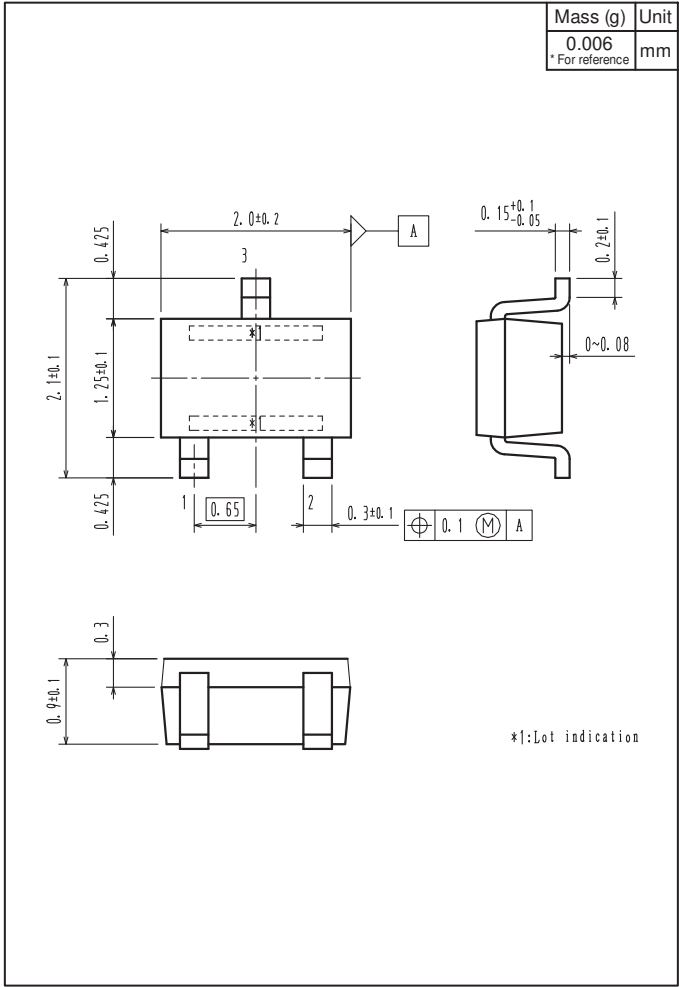
2-2. Device placement direction



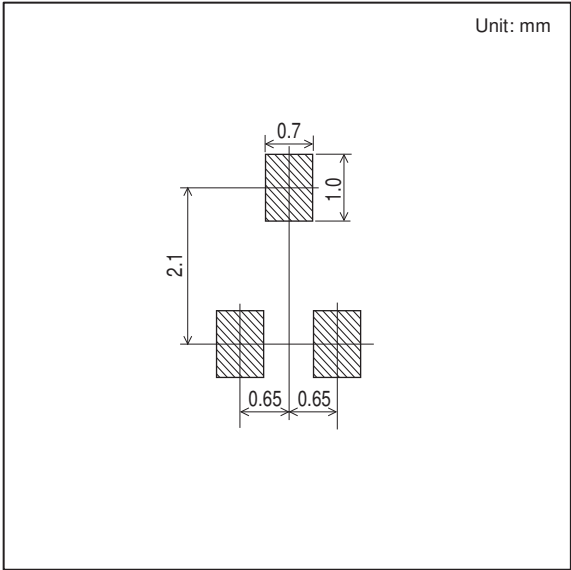
Those with oen electrode terminal on the feed hole side.....TL



Outline Drawing  
1SV263-TL-E



Land Pattern Example



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