

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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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1SV251

ON Semiconductor®

http://onsemi.com

PIN Diode

Dual series PIN Diode for VHF, UHF and AGC 50V, 50mA, $r_S=max 4.5\Omega$, CP

Features

- · Small-sized package facilitates high-density mounting and permits 1SV251-applied equipment to be made smaller
- Small interterminal capacitance (C=0.23pF typ)
- Small forward series resistance (rs= 4.5Ω max)

Specifications

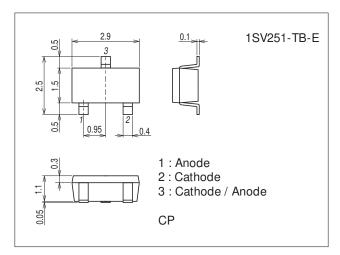
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		50	V
Forward Current	IF		50	mA
Allowable Power Dissipation	Р		150	mW
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°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-008



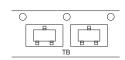
Product & Package Information

• Package

• JEITA, JEDEC : SC-59, TO-236, SOT-23, TO-236AB

• Minimum Packing Quantity: 3,000 pcs./reel

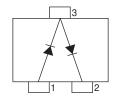
Packing Type: TB



Marking



Electrical Connection



1SV251

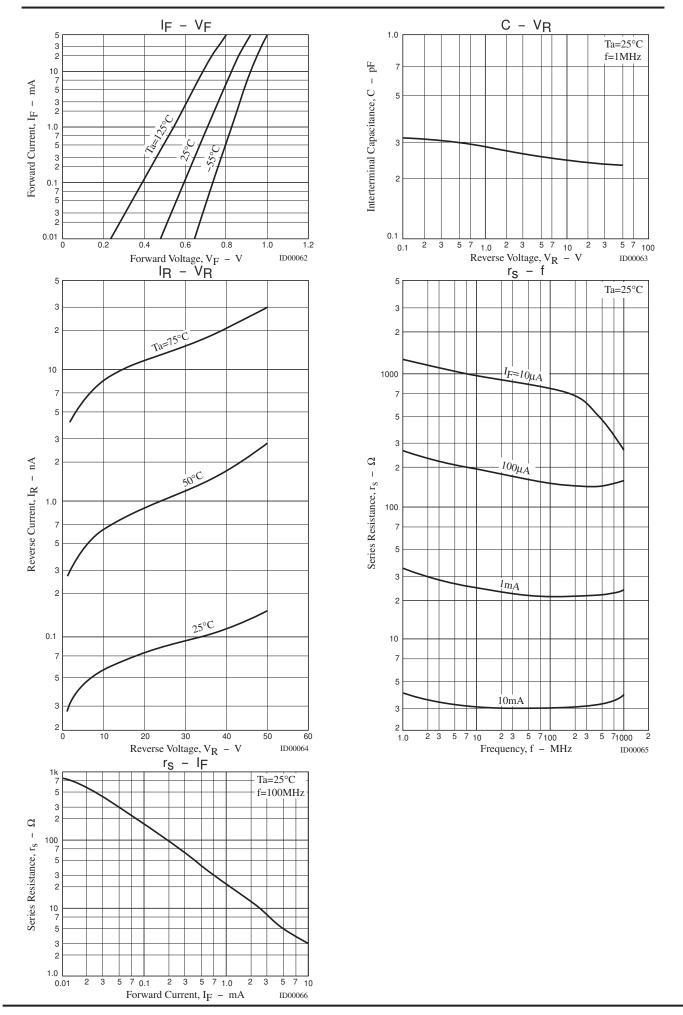
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	1 Unit
Reverse Voltage	VR	I _R =10μA	50			V
Reverse Current	IR	V _R =50V			0.1	μΑ
Forward Voltage	VF	I _F =50mA		0.92		V
Interterminal Capacitance	С	V _R =50V, f=1MHz		0.23		pF
Series Resistance	rs	IF=10mA, f=100MHz			4.5	Ω

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

Ordering Information

Device	Package	Shipping	memo	
1SV251-TB-E	СР	3,000pcs./reel	Pb Free	

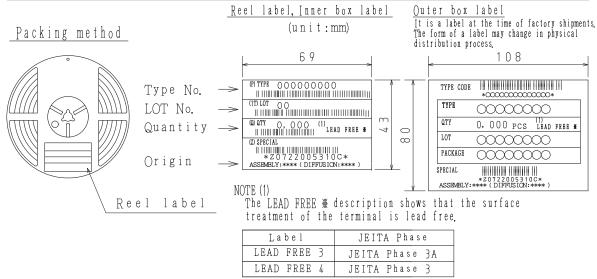


Embossed Taping Specification

1SV251-TB-E

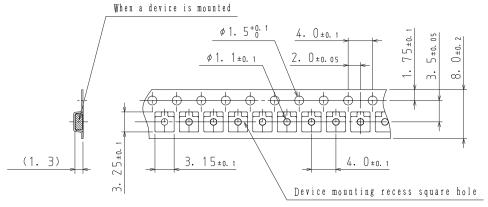
1. Packing Format

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

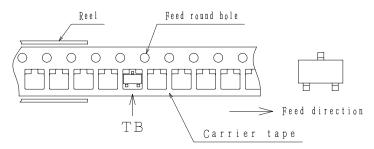


7. Taping configuration

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



2-2. Device placement direction



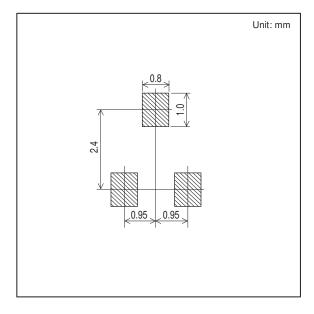
Those with one electrode terminal on the feed hole side·····TB

Outline Drawing

1SV251-TB-E

Mass (g) Unit 0.013 *For reference mm 0. 1+0. 1 0. 5+0. 25 2. 9±0.15 A 3 1. 5±0. 15 2. 5±0. 2 0. 5-0. 15 0. 95 0. 3±0.1 1, 1±0, 15 0. 05±0.05 *1:Lot indication

Land Pattern Example



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