1SV249

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PIN Diode

Dual series Pin Diode for VHF, UHF and AGC 50V, 50mA, r_s =max 4.5 Ω , MCP

Features

- Very small-sized package facilitates high-density mounting and permits 1SV249-applied equipment to be made smaller
- Small interterminal capacitance (C=0.23pF typ)
- Small forward series resistance ($r_S=4.5\Omega$ max)

Specifications

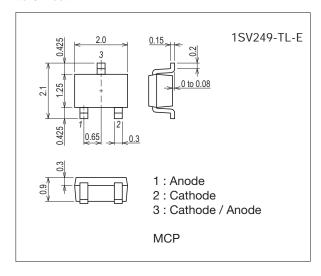
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		50	V
Forward Current	lF		50	mA
Allowable Power Dissipation	Р		100	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) 7023A-007

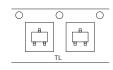


Product & Package Information

• Package : MCP

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

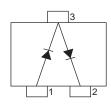
Packing Type: TL



FLOTNO.:

Marking

Electrical Connection



1SV249

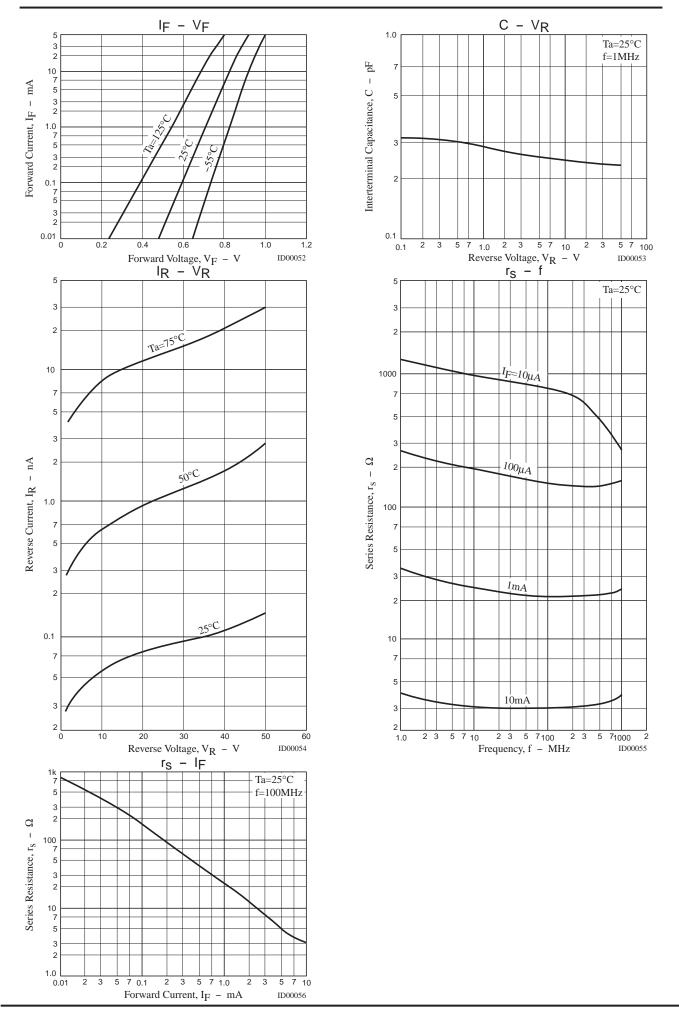
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	
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	r _S	IF=10mA, f=100MHz			4.5	Ω

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

Ordering Information

Device	Package	Shipping	memo	
1SV249-TL-E			Pb Free	

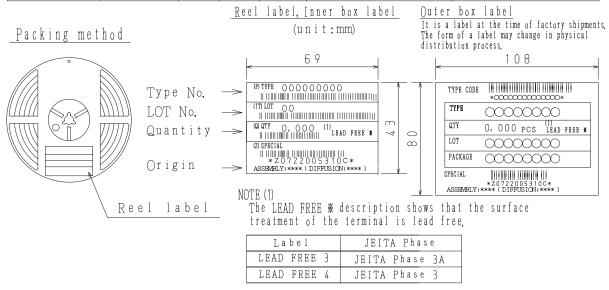


Embossed Taping Specification

1SV249-TL-E

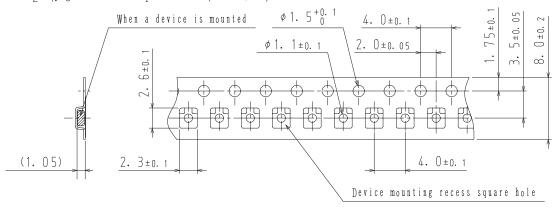
1. Packing Format

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)
MCP	MCP	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

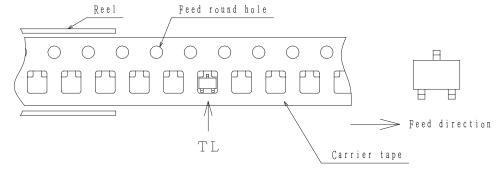


2. Taping configuration

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



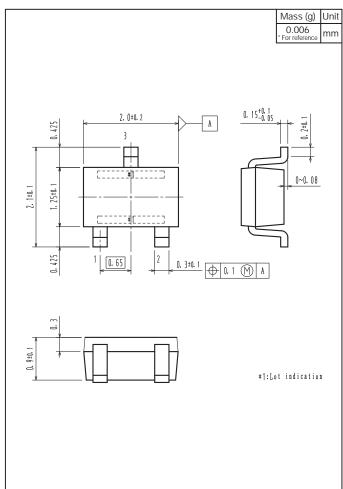
2-2. Device placement direction



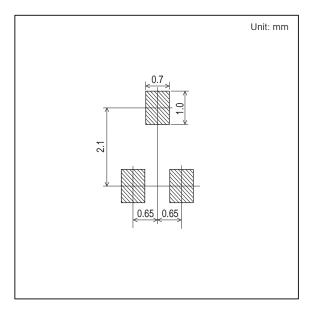
Those with oen electrode terminal on the feed hole side·····TL

Outline Drawing

1SV249-TL-E



Land Pattern Example



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