1SV315

PIN Diode Dual series PIN Diode for VHF, UHF and AGC 50V, 50mA, rs=typ 6Ω, MCP



Features

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

Specifications

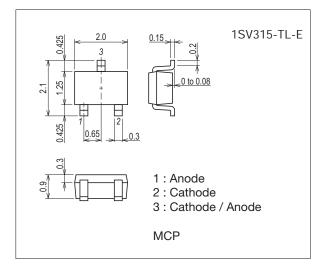
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		50	V
Forward Current	IF		50	mA
Allowable Power Dissipation	Р		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

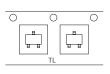


Product & Package Information

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

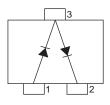
Packing Type: TL

Marking





Electrical Connection



Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol	Conditions	min	typ	max	Unit
Reverse Voltage	VR	I _R =10μA	50			V
Reverse Current	IR	V _R =50V			0.1	μΑ
Forward Voltage	VF	IF=50mA		0.95	1.0	V
Interterminal Capacitance	С	V _R =50V, f=1MHz		0.23		рF
Series Resistance	r _S	IF=10µA, f=100MHz		2400		Ω
		IF=10mA, f=100MHz	4	6	9	Ω

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

Ordering Information

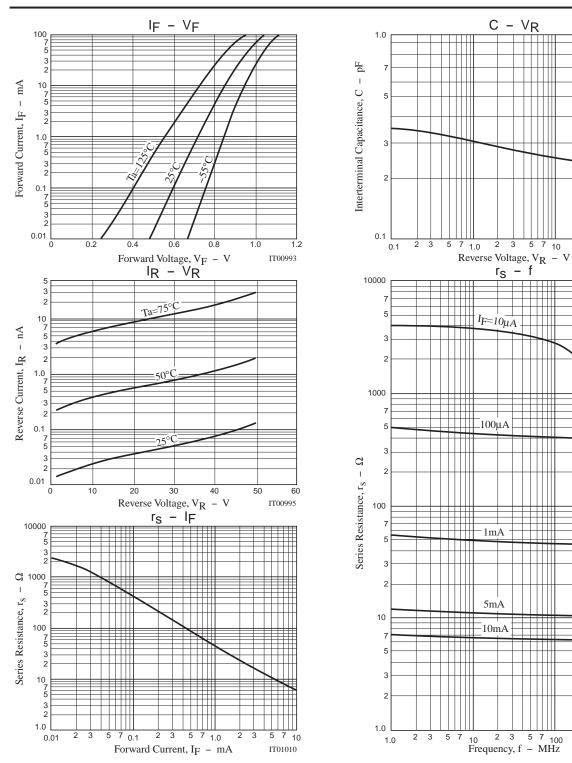
0			
Device Package		Shipping	memo
1SV315-TL-E MCP		3,000pcs./reel	Pb Free

TTT

f=1MHz Ta=25°C

5 7₁₀₀ IT00994

2 3



57₁₀₀₀ IT00996

2 3

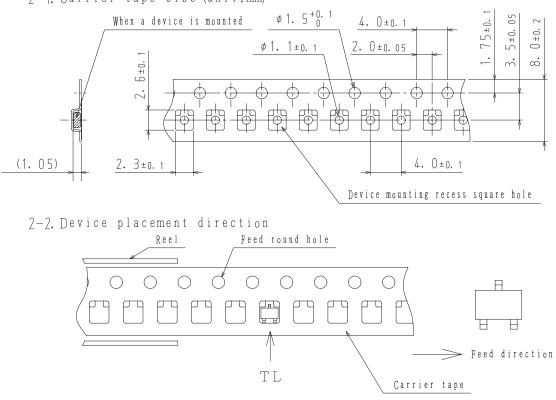
Embossed Taping Specification 1SV315-TL-E

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
183×72×185 440×195×2 Reel label, Inner box label (unit:mm) Outer box label It is a label at the time of factory The form of a label may change in phy distribution process. Type No. LOT No. Quantity Origin Origin Origin TYPE COOCOCOOO (Unit and the surface treatment of the terminal is lead free. One of the surface treatment of the terminal is lead free. NOTE (1) The LEAD FREE % description shows that the surface treatment of the terminal is lead free. Label JEITA Phase JEITA Phase LEAD FREE 4 JEITA Phase JEITA Phase JEAD FREE 4					

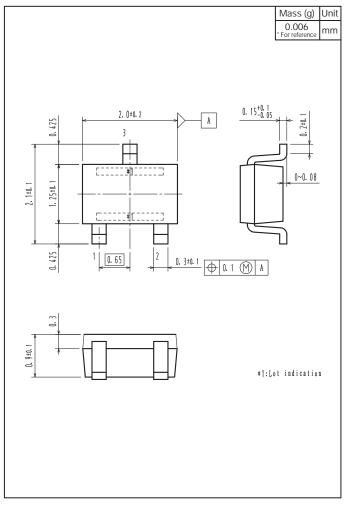
2. Taping configuration

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

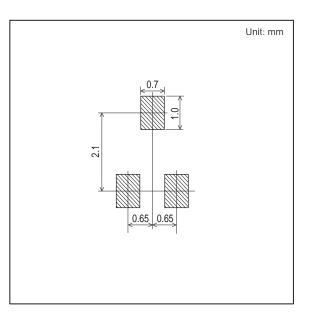


Those with oen electrode terminal on the feed hole side \cdots TL

Outline Drawing 1SV315-TL-E



Land Pattern Example



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