# 1SV263

# **PIN Diode** Single PIN Diode for VHF, UHF and AGC 50V, 50mA, r<sub>s</sub>=typ 2.5Ω, MCP



# **Features**

- Ultlasmall-sized package facilitates high-density mounting and permits 1SV263-applied equipment to be made smaller
- Small interterminal capacitance (C=0.23pF typ)
- Small forward series resistance ( $r_s=2.5\Omega$  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	Тј		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-005



# Product & Package Information

- Package
- JEITA, JEDEC : SC-70, SOT-323

: MCP

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

# Packing Type: TL

#### Marking





# **Electrical Connection**



### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Linit
		Conditions	min	typ	max	
Reverse Voltage	VR	I <sub>R</sub> =10μA	50			V
Reverse Current	IR	V <sub>R</sub> =50V			0.1	μA
Forward Voltage	VF	IF=50mA		0.91	0.95	V
Interterminal Capacitance	С	V <sub>R</sub> =50V, f=1MHz		0.23	0.4	pF
Series Resistance	r <sub>s</sub>	IF=5mA, f=100MHz		4.0	8.0	Ω
		IF=10mA, f=100MHz		2.5	4.5	Ω

# **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	Maximum Number of devices contained (pcs)			Packing	f o r m a t
	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
Packing met	hod Type LOT Quan Orig Reel la	No. No. tity in tbel	$\frac{\text{Reel}}{\text{Reel}}$	I a b e l, ]       (u)       (u) <	ner box label Outer   i t :mm) It is a The form distribu   9 It is a The fo	box label abel at the time of factory shipment of a label may change in physical ion process. 108 PE CODE
				LEAD FRI	JEITA Phase 3A	_
				LEAD FRE	€ A I LEITA Phase R	

2. Taping configuration

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



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

ΤL

Carrier tape

# Outline Drawing 1SV263-TL-E



# Land Pattern Example



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