# 1SV233



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# **PIN Diode** Single PIN Diode for VHF, UHF and AGC 50V, 50mA, $r_s$ =typ $5\Omega$ , CP

#### **Features**

- Very small-sized package facilitates high-density mounting and permits 1SV233-applied equipment to be made smaller
- Small interterminal capacitance (C=0.23pF typ)
- Small forward series resistance (rs= $5\Omega$  typ)

#### **Specifications**

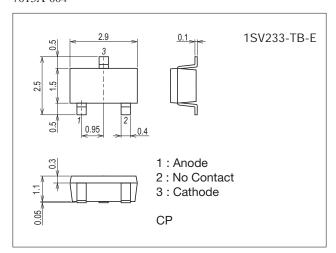
#### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		50	V
Forward Current	lF		50	mA
Allowable Power Dissipation	Р		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-004



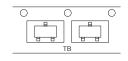
#### **Product & Package Information**

• Package : CP

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

 $\bullet$  Minimum Packing Quantity : 3,000 pcs./reel

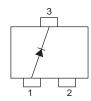
#### Packing Type: TB



#### Marking



#### **Electrical Connection**



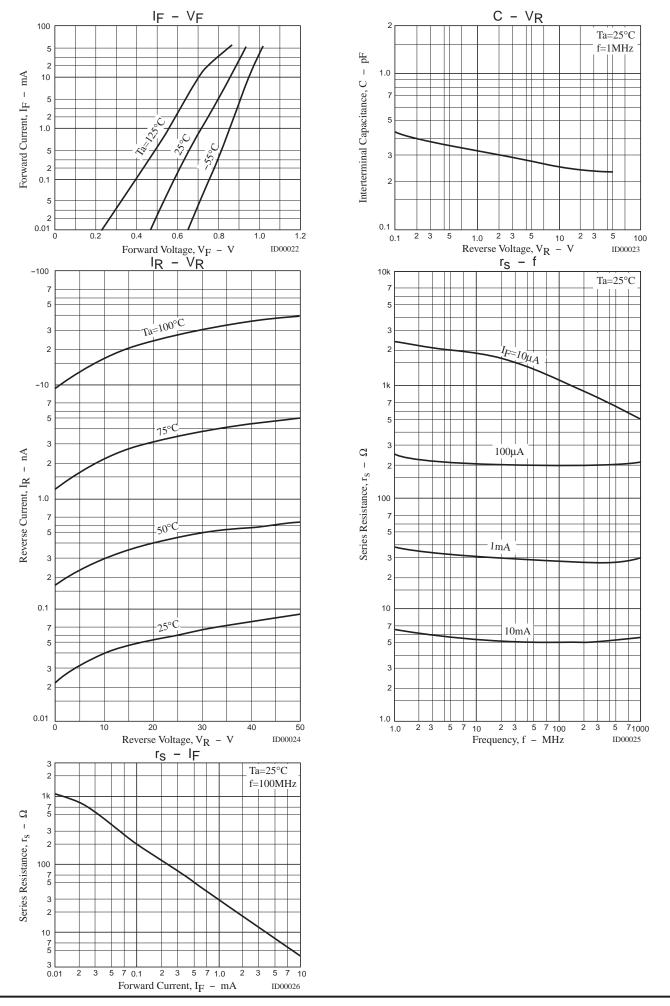
#### 1SV233

#### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
Parameter			min	typ	max	Offic
Reverse Voltage	VR	I <sub>R</sub> =10μA	50			V
Reverse Current	IR	V <sub>R</sub> =50V			0.1	μΑ
Forward Voltage	VF	I <sub>F</sub> =50mA		0.95		V
Interterminal Capacitance	С	V <sub>R</sub> =50V, f=1MHz		0.23		pF
Series Resistance	rs	IF=10mA, f=100MHz		5		Ω

### Ordering Information

Device Package		Shipping	memo	
1SV233-TB-E	СР	3,000pcs./reel	Pb Free	

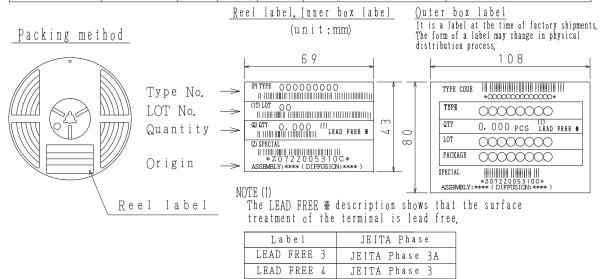


#### **Embossed Taping Specification**

#### 1SV233-TB-E

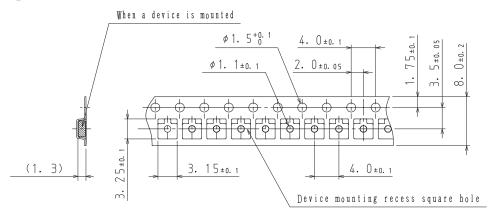
#### 1. Packing Format

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	

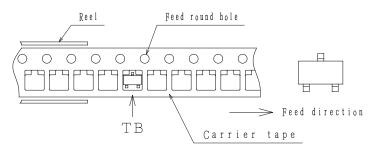


#### 7. Taping configuration

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



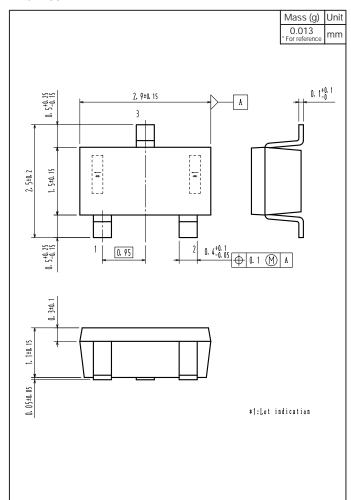
2-2. Device placement direction



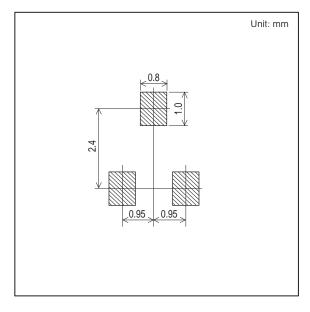
Those with one electrode terminal on the feed hole side·····TB

## **Outline Drawing**

1SV233-TB-E



#### Land Pattern Example



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