



SANYO Semiconductors

# DATA SHEET

An ON Semiconductor Company

## 1SV263 — Silicon Epitaxial Type Pin Diode for VHF, UHF, AGC Applications

### Features

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

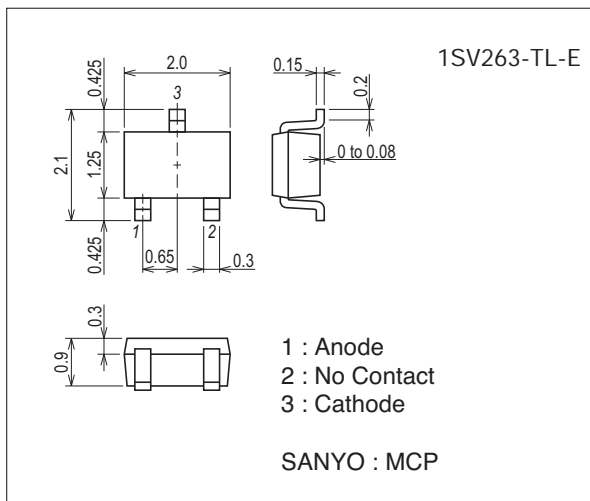
### Specifications

#### Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	$V_R$		50	V
Forward Current	$I_F$		50	mA
Allowable Power Dissipation	P		100	mW
Junction Temperature	$T_j$		125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +125	$^\circ\text{C}$

### Package Dimensions

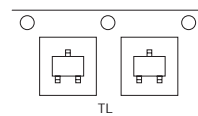
unit : mm (typ)  
7023A-005



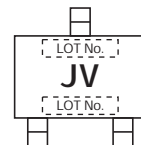
### Product & Package Information

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

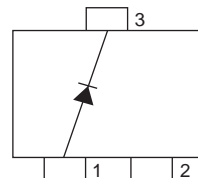
### Packing Type: TL



### Marking



### Electrical Connection



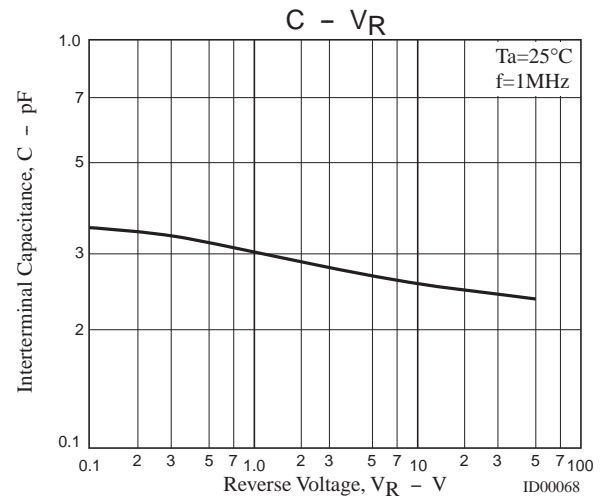
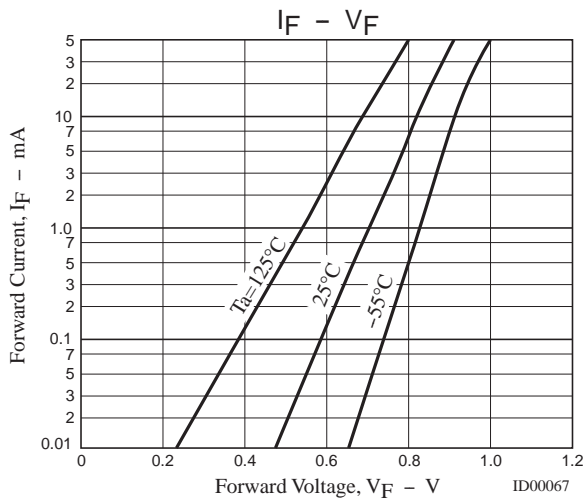
# 1SV263

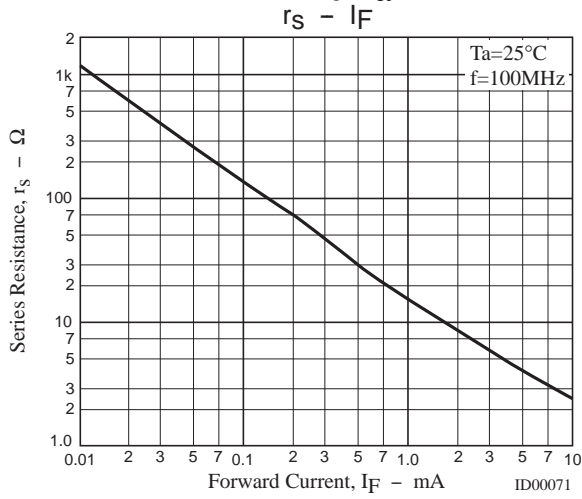
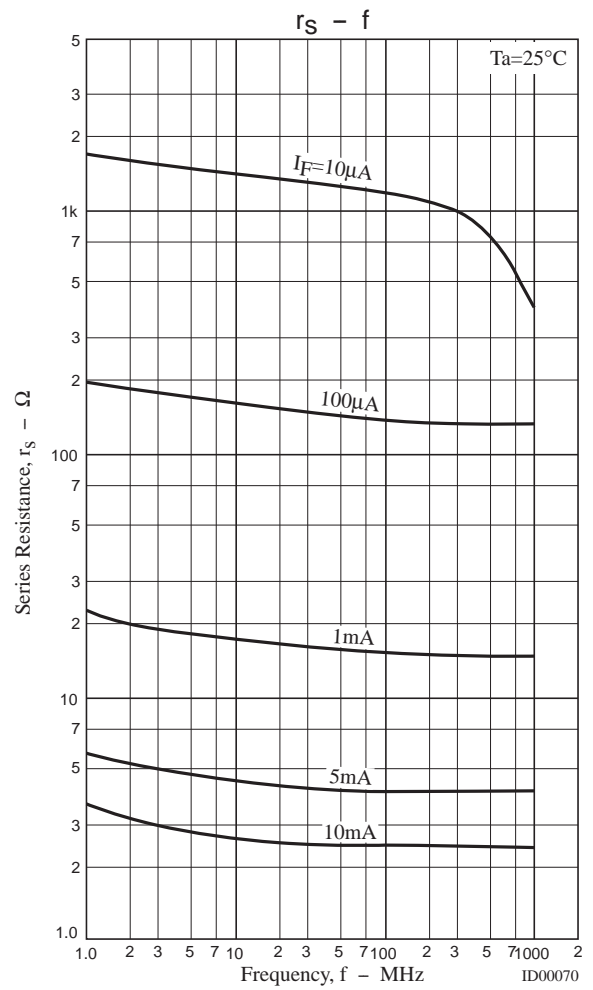
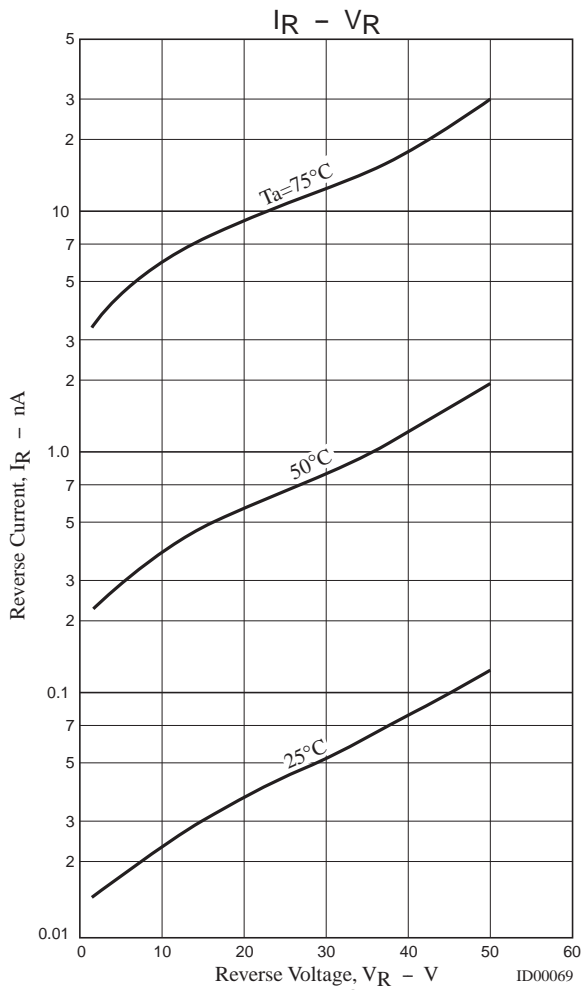
## Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=10\mu\text{A}$	50			V
Reverse Current	$I_R$	$V_R=50\text{V}$			0.1	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F=50\text{mA}$		0.91	0.95	V
Interterminal Capacitance	C	$V_R=50\text{V}, f=1\text{MHz}$		0.23	0.4	pF
Series Resistance	$r_s$	$I_F=5\text{mA}, f=100\text{MHz}$		4.0	8.0	$\Omega$
		$I_F=10\text{mA}, f=100\text{MHz}$		2.5	4.5	$\Omega$

## Ordering Information

Device	Package	Shipping	memo
1SV263-TL-E	MCP	3,000pcs./reel	Pb Free



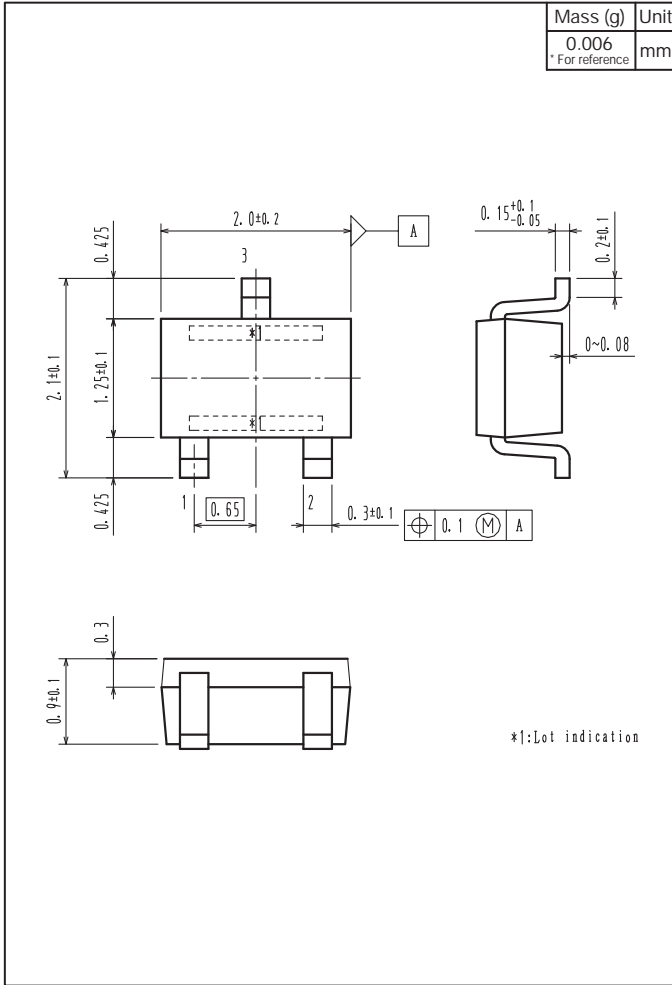




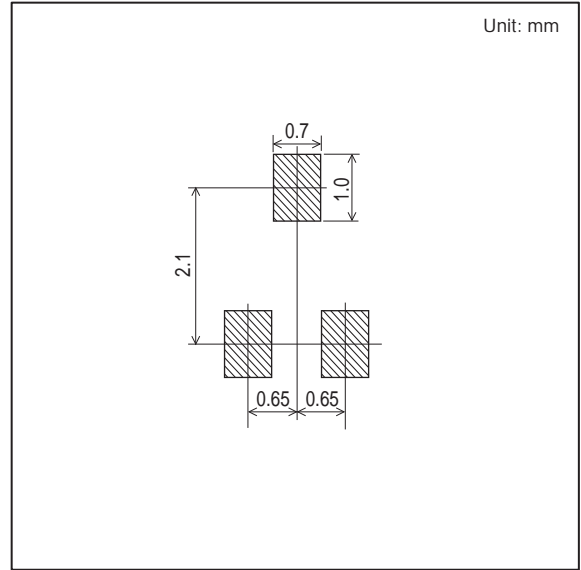
# 1SV263

## Outline Drawing

1SV263-TL-E



## Land Pattern Example



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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.