



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

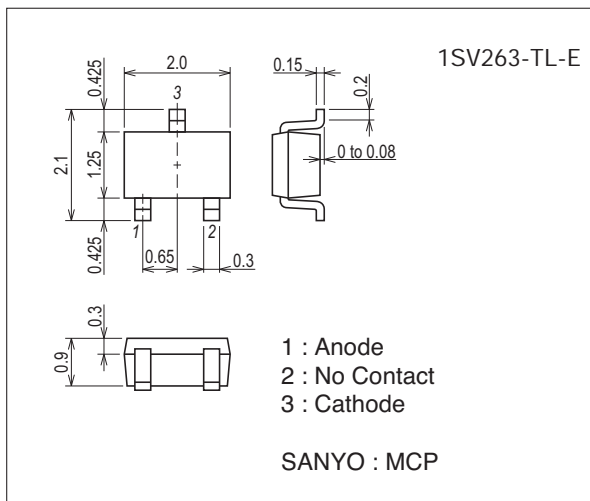
Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

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)

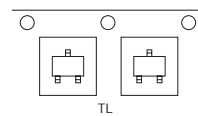
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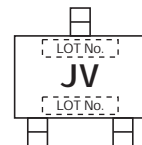
Product & Package Information

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

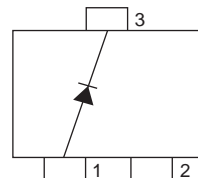
Packing Type: TL



Marking



Electrical Connection



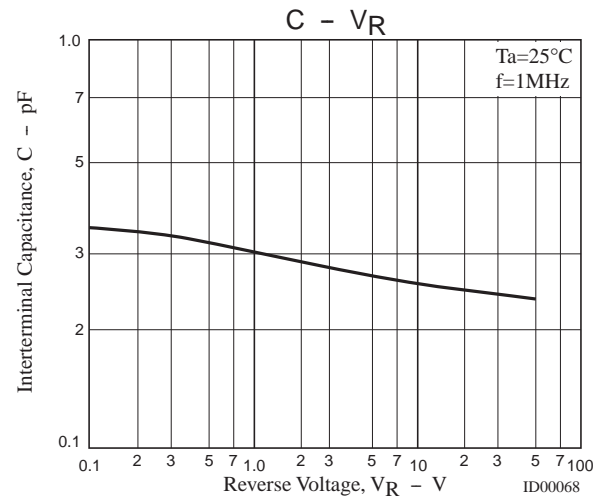
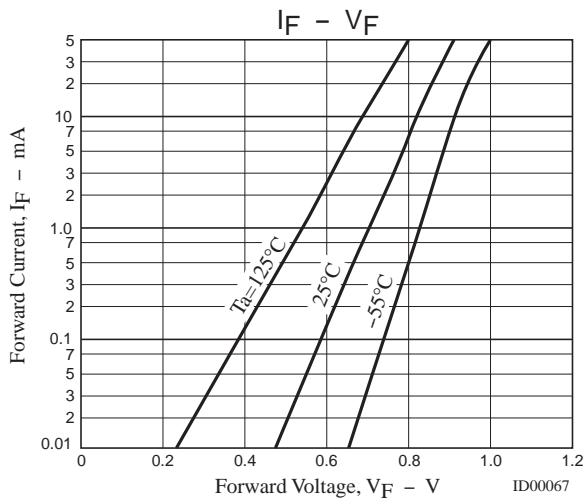
1SV263

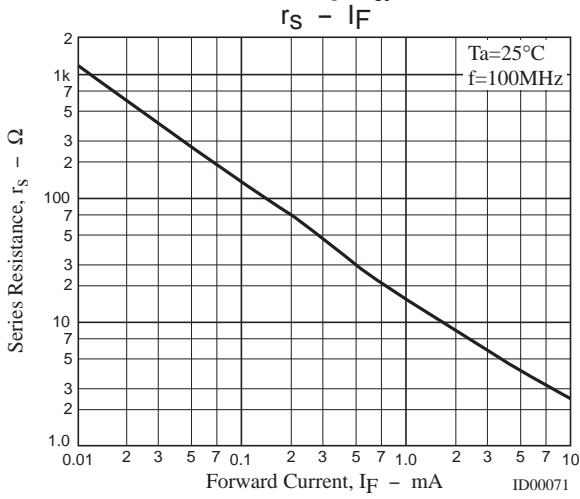
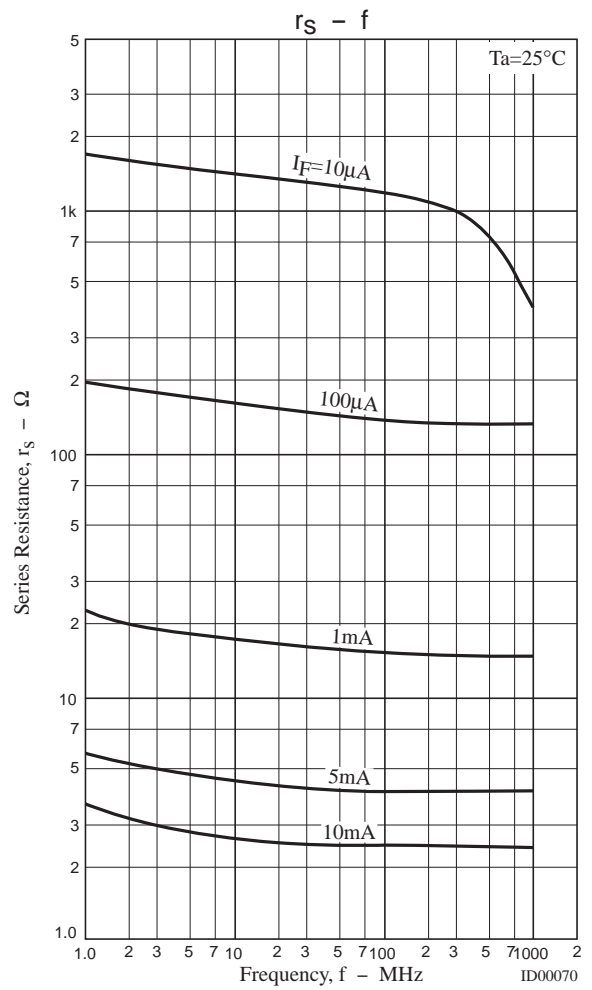
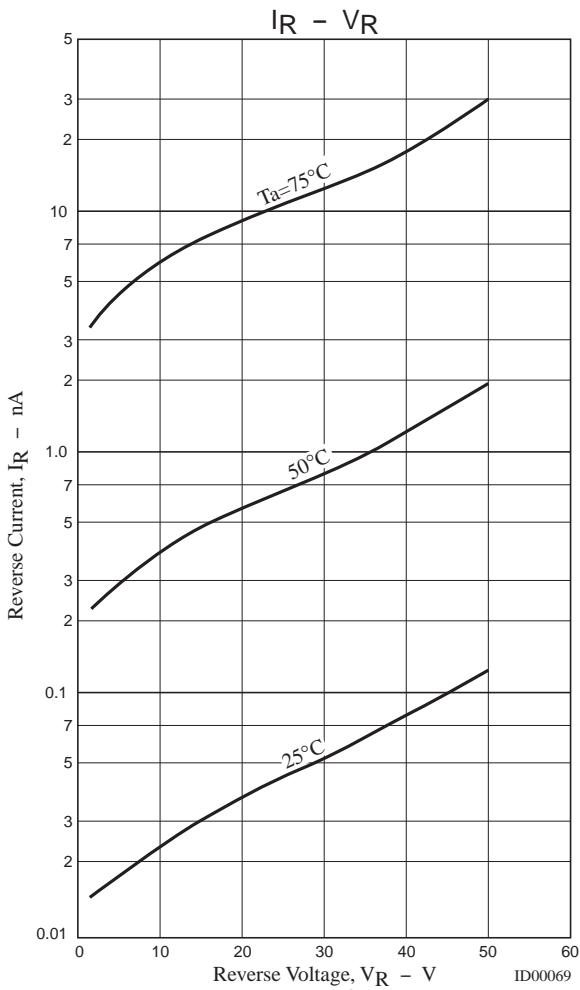
Electrical Characteristics at Ta=25°C

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

Ordering Information

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

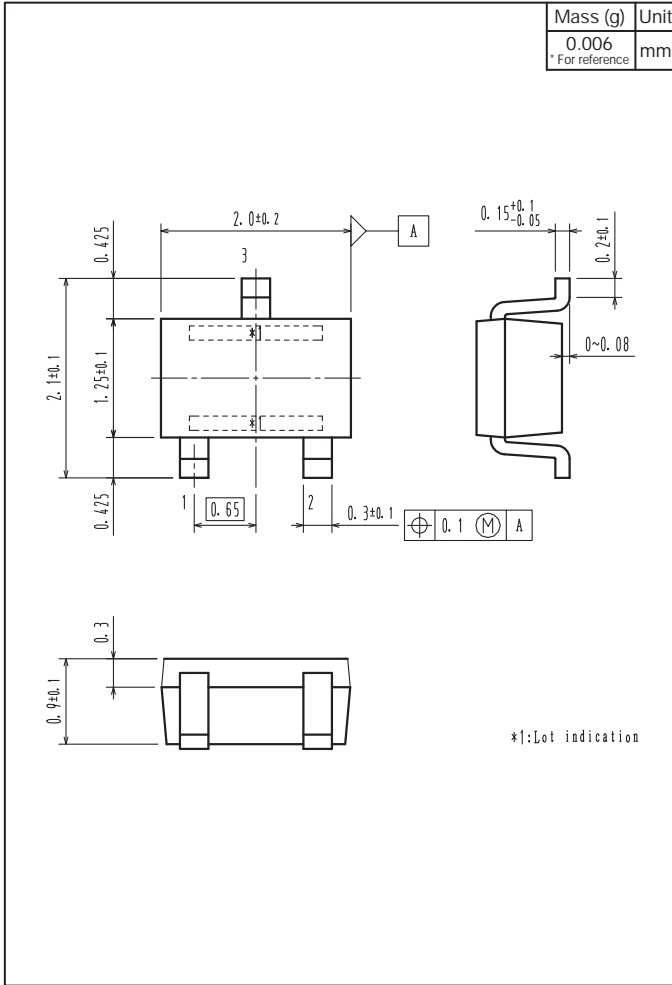




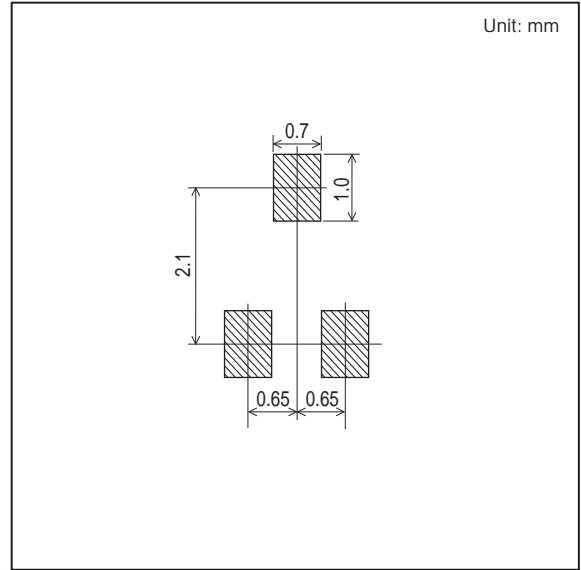
1SV263

Outline Drawing

1SV263-TL-E



Land Pattern Example



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