

## 1SV272

Silicon Epitaxial Type

# Transmitting, Receiving Antenna-switch Use PIN Diode

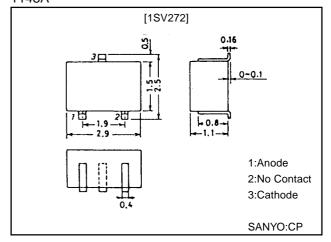
#### **Features**

- Series connection of 2 elements in a Very smallsized package facilitates high-density mounting and permits 1SV272-applied equipment to be made smaller.
- · Small interterminal capacitance (C=0.6pF typ).
- · Small forward series resistance (rs=0.5 $\Omega$  typ).

## **Package Dimensions**

unit:mm

1148A



## **Specifications**

## Absolute Maximum Ratings at Ta = 25°C

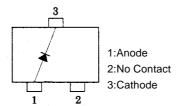
Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V <sub>R</sub>		50	V
Forward Current	I <sub>F</sub>		100	mA
Allowable Power Dissipation	Р		150	mW
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

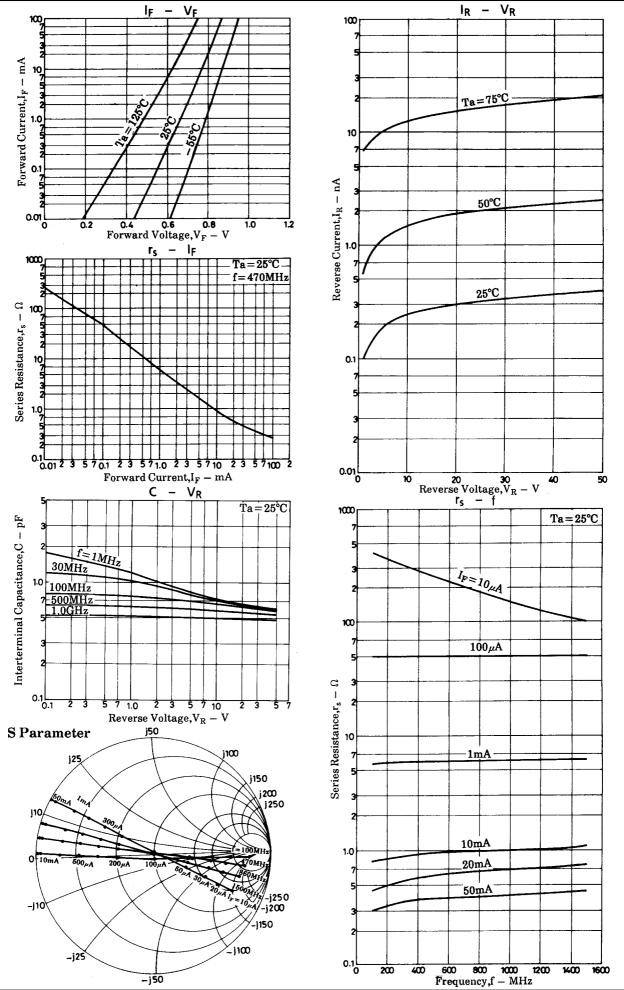
### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧ <sub>R</sub>	I <sub>R</sub> =10μA	50			V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =45V			0.5	μΑ
Forward Voltage	٧F	I <sub>F</sub> =100mA		0.87	1.0	V
Interterminal Capacitance	С	V <sub>R</sub> =40V, f=1MHz		0.6	1.0	pF
Series Resistance	rs	I <sub>F</sub> =50mA, f=470MHz		0.5	0.7	Ω

<sup>·</sup> Marking:MV

#### **Electrical Connection**





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