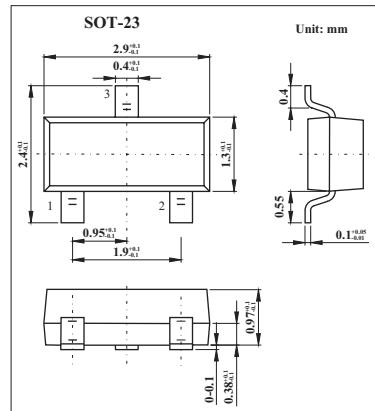


## Transmitting Receiving Antenna-switch Use PIN Diode

**1SV272**

### ■ 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 ( $C=0.6\text{pF}$  typ).
- Small forward series resistance ( $r_s=0.5\Omega$  typ).



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

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	50	V
Forward Current	$I_F$	100	mA
Allowable Power Dissipation	P	150	mW
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_R$	$I_R = 10\mu\text{A}$	50			V
Reverse Current	$I_R$	$V_R = 45\text{V}$			0.5	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F = 100\text{mA}$		0.87	1.0	V
Interterminal Capacitance	C	$V_R = 40\text{V}, f = 1\text{MHz}$		0.6	1.0	pF
Series Resistance	$r_s$	$I_F = 50\text{mA}, f = 470\text{MHz}$		0.5	0.7	$\Omega$

### ■ Marking

Marking	MV
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