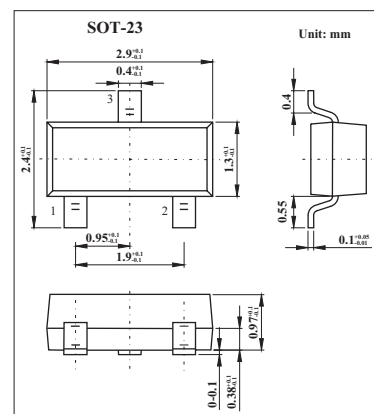


Transmitting Receiving Antenna-switch Use PIN Diode

1SV272

■ Features

- Series connection of 2 elements in a very small sized 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	μA
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	Ω

■ Marking

Marking	MV
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