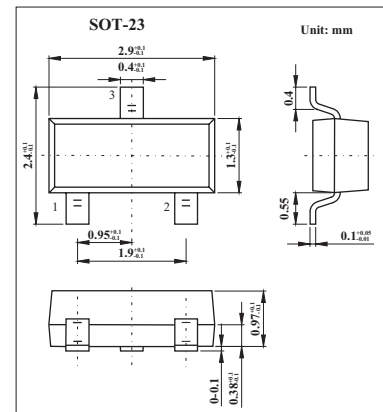


VHF~UHF MIXER APPLICATION

1SS271

■ Features

- Small Delat forward voltage: $\Delta V_F = 10 \text{ mV}(\text{Max})$
- Small Delat total capacitance: $\Delta C_T = 0.1 \text{ pF}(\text{Max})$

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

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_R	6	V
Forward Current	I_F	30	mA
Junction temperature	T_J	125	$^\circ\text{C}$
Storage temperature range	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	$I_R = 1 \mu\text{A}$	6			V
Reverse current	I_R	$V_R = 15 \text{ V}$			0.5	μA
Forward voltage	V_F	$I_F = 0.1 \text{ mA}$		0.3		V
		$I_F = 10 \text{ mA}$	0.42	0.5	0.55	
Total capacitance	C_T	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		0.8	1.0	pF
Delat forward voltage	ΔV_F	$I_F = 10 \text{ mA}$ (Note 1)			10	mV
Delat total capacitance	ΔC_T	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$ (Note 1)			0.1	pF

Note

Difference between 2 Devices in 1 package

■ Marking

Marking	BD
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