

VHF,UHF Detector and Mixer Applications

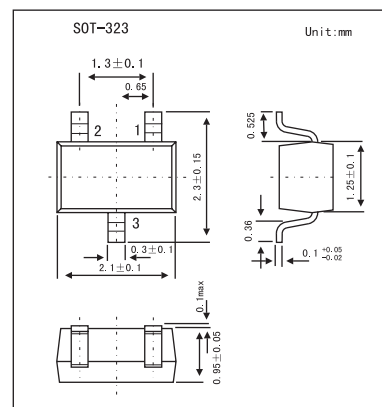
1SS375

■ Features

- Series connection of 2 elements in a very small-sized package facilitates high-density mounting and permits 1SS375-applied equipment to be made smaller.
- Small interterminal capacitance.
- Low forward voltage.
- High breakdown voltage.

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

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	10	V
Forward Current	I_F	35	mA
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
Forward Voltage	$V_{F(1)}$	$I_F = 1 \text{ mA}$	350		420	mV
	$V_{F(2)}$	$I_F = 10 \text{ mA}$	480		580	
Forward Current	I_F	$V_F = 1 \text{ V}$	35			mA
Reverse Current	$I_{R(1)}$	$V_R = 2 \text{ V}$			0.2	μA
	$I_{R(2)}$	$V_R = 10 \text{ V}$			10	
Interterminal Capacitance	C	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$			0.85	pF
Forward Voltage Difference	ΔV_F	$I_F = 10 \text{ mA}$			10	mV
Interterminal Capacitance Difference	ΔC	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$			0.1	pF

■ Marking

Marking	FH
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