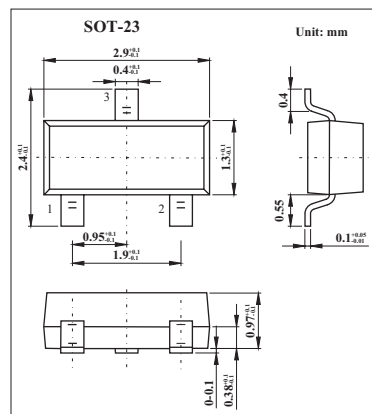


# 1SS221

## ■ Features

- Low capacitance:  $C_t = 4.0 \text{ pF MAX.}$
- High speed switching:  $t_{rr} = 3.0 \text{ ns MAX.}$
- Wide applications including switching, limiter clipper.



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

Parameter	Symbol	Rating	Unit
Peak Reverse Voltage	$V_{RM}$	100	V
DC Reverse Voltage	$V_R$	100	V
Peak Forward Current	$I_{FM}$	300	mA
Average Rectified Current	$I_o$	100	mA
DC Forward Current	$P$	100	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 + 150	$^\circ\text{C}$
Junction to Ambient	$R_{th(j-a)}$	0.67	$^\circ\text{C/mW}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous reverse voltage	$V_F$	$I_F = 10 \text{ Ma}$		720	850	mV
		$I_F = 50 \text{ mA}$		850	1000	
		$I_F = 100 \text{ mA}$		950	1200	
Reverse current	$I_R$	$V_R = 100 \text{ V}$			1.0	$\mu\text{A}$
capacitance	$C_t$	$V_R = 0, f = 1.0 \text{ MHz}$		2.0	4.0	pF
Reverse recovery time	$t_{rr}$	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}, R_L = 100 \Omega$			3.0	ns

## ■ Marking

Marking	A14
---------	-----