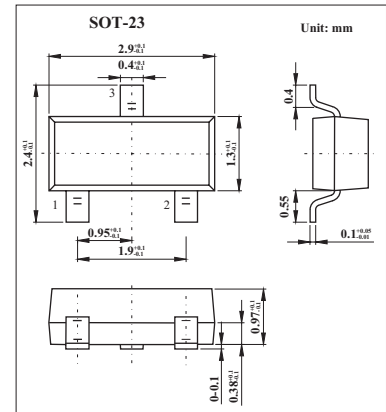


## LOW VOLTAGE HIGH SPEED SWITCHING

## 1SS321



### ■ Features

- Low forward voltage:  $V_F = 0.42 \text{ V(Typ)}$
- Low reverse current:  $I_R = 500 \text{ nA(Max)}$
- Small packag : SC-59(SOT-23MOD)

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

Parameter	Symbol	Rating	Unit
Maximum (Peak) reverse voltage	$V_{RM}$	12	V
Reverse voltage	$V_R$	10	V
Maximum (Peak) forward current	$I_{FM}$	150 (Note 1)	mA
Average forward current	$I_o$	50 (Note 1)	mA
Surge current (t = 10 ms)	$I_{FSM}$	1000 (Note 1)	mA
Power dissipation	P	150	mW
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-55 to +125	$^\circ\text{C}$

Note

Unit Rating.Total rating = Unit Rating  $\times$  1.5

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 1 \text{ mA}$		0.32		V
		$I_F = 10 \text{ mA}$		0.42		
		$I_F = 50 \text{ mA}$		0.63	1.0	
Reverse current	$I_R$	$V_R = 10 \text{ V}$			500	$\mu\text{A}$
Total capacitance	$C_T$	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		0.32	4.5	pF

Note

Difference between 2 Devices in 1 package

### ■ Marking

Marking	F9