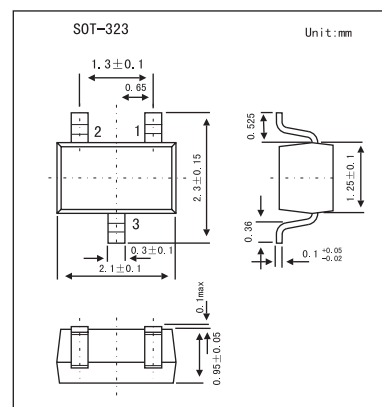


## LOW VOLTAGE HIGH SPEED SWITCHING

## 1SS322

## ■ Features

- Low forward voltage:  $V_{F(3)} = 0.54 \text{ V(Typ)}$
- Low reverse current:  $I_R = 5 \text{ } \mu\text{A (Typ)}$

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

Parameter	Symbol	Rating	Unit
Maximum (peak) reverse voltage	$V_{RM}$	45	V
Reverse voltage	$V_R$	40	V
Maximum (peak) forward current	$I_{FM}$	300	mA
Average forward Current	$I_o$	100	mA
Power dissipation	$P$	100	mW
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature range	$T_{stg}$	-55 to +125	$^\circ\text{C}$

(\*) Unit rating. Total rating = Unit rating  $\times 1.5$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward voltage	$V_{F(1)}$	$I_F = 1 \text{ mA}$		0.28		V
	$V_{F(2)}$	$I_F = 10 \text{ mA}$		0.36		
	$V_{F(3)}$	$I_F = 100 \text{ mA}$		0.54	0.60	
Reverse current	$I_R$	$V_R = 40 \text{ V}$			5	$\mu\text{A}$
Total capacitance	$C_t$	$V_R = 0, f = 1.0 \text{ MHz}$		18	25	pF

## ■ Marking

Marking	A9
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