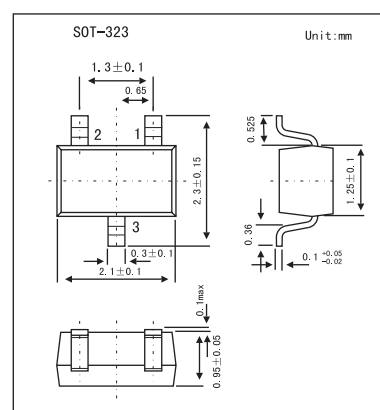


## LOW VOLTAGE HIGH SPEED SWITCHING

## 1SS393

## ■ Features

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

■ 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
Surge current (10 ms)	$I_{FSM}$	1(*)	A
Power dissipation	P	100	mW
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature range	$T_{stg}$	-55 to +125	$^\circ\text{C}$
Operating temperature range	$T_{opr}$	-40 to +100	$^\circ\text{C}$

(\*) 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	0.6	
	$I_R$	$V_R = 40 \text{ V}$			5	$\mu\text{A}$
Total capacitance	$C_t$	$V_R = 0, f = 1.0 \text{ MHz}$		18	25	pF

## ■ Marking

Marking	R9
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