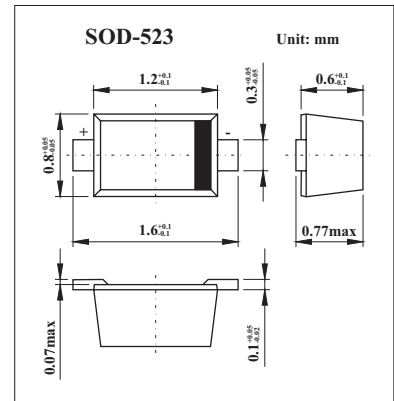


## HIGH SPEED SWITCHING APPLICATION

## 1SS388

## ■ Features

- Small Package
- Low Forward Voltage : $V_{F(3)} = 0.54V$ (TYP.)
- Low Reverse Current : $I_R = 5 \text{ Ma}$ (TYP.)

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

Characteristic	Symbol	Rating	Unit
Maximum (Peak) reverse voltage	$V_{RM}$	85	V
Reverse voltage	$V_R$	80	V
Maximum (Peak) forward current	$I_{FM}$	200	mA
Average forward current	$I_o$	100	mA
Surge current (10 ms)	$I_{FSM}$	1	A
Power dissipation	$P^*$	150	mW
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-55 to + 125	$^\circ\text{C}$
Operating temperature range	$T_{opr}$	-44 to + 100	$^\circ\text{C}$

\* : Mounted on a glass epoxy circuit board of  $20 \times 20\text{mm}$ , pad dimension of  $4 \times 4\text{mm}$ .

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

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Continuous forward voltage	$V_F$	$I_F = 1 \text{ mA}$		0.28		V
		$I_F = 10 \text{ mA}$		0.36		
		$I_F = 50 \text{ mA}$		0.54	0.6	
Reverse current	$I_R$	$V_R = 10 \text{ V}$			5	$\mu\text{A}$
Total capacitance	$C_T$	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		18	25	pF

## ■ Marking

Marking	S3
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