

SMD Type

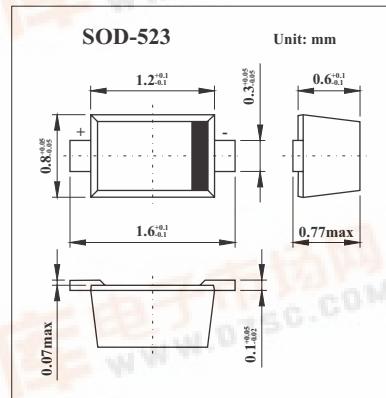
Diodes

HIGH SPEED SWITCHING APPLICATION

1SS389

■ Features

- Small Package
- Low Forward Voltage $V_F = 0.23V$ (TYP.) @ $I_F = 5\text{ mA}$

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

Characteristic	Symbol	Rating	Unit
Maximum (Peak) reverse voltage	V_{RM}	15	V
Reverse voltage	V_R	10	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	$T_{o pr}$	-44 to +100	$^\circ\text{C}$

* : Mounted on a glass epoxy circuit board of 20 × 20mm, pad dimension of 4 × 4mm.

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

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Continuous forward voltage	V_F	$I_F = 1\text{ mA}$		0.18		V
		$I_F = 10\text{ mA}$		0.23	0.3	
		$I_F = 100\text{ mA}$		0.35	0.5	
Reverse current	I_R	$V_R = 10\text{ V}$			20	$\mu\text{ A}$
Total capacitance	C_T	$V_R = 0\text{ V}, f = 1\text{ MHz}$		20	40	pF

■ Marking

Marking	S4
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