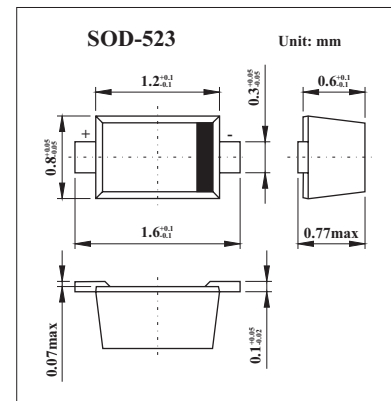


ULTRA HIGH SPEED SWITCHING APPLICATION

1SS368

■ Features

- Small Package
- Low forward voltage : $V_{f(3)} = 0.98\text{V(TYP.)}$
- Fast Forward Voltage : $t_{rr} = 1.6\text{ns(TYP.)}$
- Small Total Capacitance : $C_T = 0.5\text{pF(TYP.)}$

■ 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	$^\circ\text{C}$

* : 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	$I_F = 1\text{ mA}$		0.62		V
		$I_F = 10\text{ mA}$		0.75		
		$I_F = 100\text{ mA}$		0.98	1.2	
Reverse current	I_R	$V_R = 30\text{ V}$			0.1	$\mu\text{ A}$
		$V_R = 80\text{ V}$			0.5	
Total capacitance	C_d	$V_R = 0\text{ V}, f = 1\text{ MHz}$		0.5	3.0	pF
Reverse recovery time	t_{rr}	$I_F = 100\text{ mA}$		1.6	4.0	ns

■ Marking

Marking	C1
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