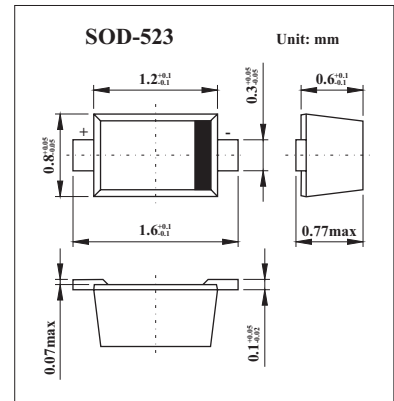


ULTRA HIGH SPEED SWITCHING APPLICATION

1SS387

■ Features

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

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

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	$^\circ C$
Storage temperature range	T_{stg}	-55 to + 125	$^\circ C$

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

■ Electrical Characteristics $T_a = 25^\circ C$

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Continuous forward voltage	V_F	$I_F = 1 mA$		0.62		V
		$I_F = 10 mA$		0.75		
		$I_F = 100 mA$		0.97	1.2	
Reverse current	I_R	$V_R = 30 V$			0.1	μA
		$V_R = 80 V$			0.5	
Total capacitance	C_T	$V_R = 0 V, f = 1 MHz$		0.5	3.0	pF
Reverse recovery time	t_{rr}	$I_F = 10 mA$		1.6	4.0	ns

■ Marking

Marking	C1
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