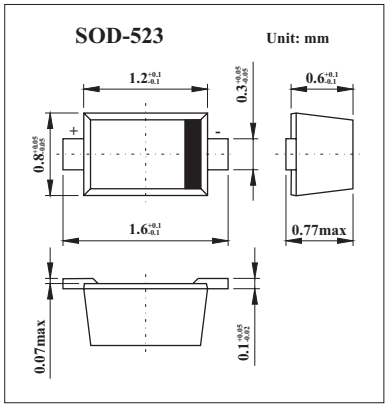
ULTRA HIGH SPEED SWITCHING APPLICATION

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 Ta = 25℃

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 forwrad current	I_O	100	mA
Surge current (10 ms)	I_{FSM}	1	A
Power dissipation	P	150*	mW
Junction temperature	T_j	125	℃
Storage temperature range	T_{stg}	-55 to + 125	℃

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

■ Electrical Characteristics Ta = 25℃

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}	IF = 10 mA		1.6	4.0	ns

■ Marking

Marking	C1