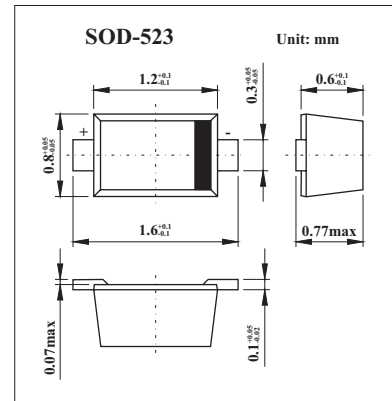


# 1SS387

## ■ Features

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



## ■ 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	$\mu A$
		$V_R = 80 V$			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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