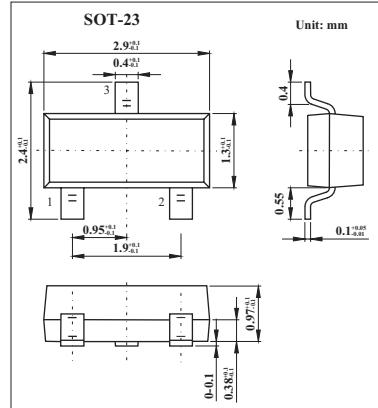


# ULTRA HIGH SPEED SWITCHING APPLICATION

## 1SS196

### ■ Features

- Small Package
- Low forward voltage : $V_{F(3)} = 0.9$  V(Typ.)
- Fast Reverse Recovery Time : $t_{rr} = 1.6$  ns(Typ.)
- Small Total Capacitance : $C_T = 0.9$  pF(Typ.)



### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Peak Reverse Voltage	V <sub>RM</sub>	85	V
DC Reverse Voltage	V <sub>R</sub>	80	V
Peak Reverse Current	I <sub>FM</sub>	300	mA
Average Rectified Current	I <sub>o</sub>	100	mA
Surge Current (10 ms)	I <sub>FSM</sub>	2	A
DC Forward Current	P	150	mW
Junction Temperature	T <sub>j</sub>	125	°C
Storage Temperature Range	T <sub>stg</sub>	-55 to + 125	°C

### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous reverse voltage	V <sub>F</sub>	I <sub>F</sub> = 1.0 mA		0.6		V
		I <sub>F</sub> = 10 mA		0.72		
		I <sub>F</sub> = 100 mA		0.9	1.2	
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 30 V			0.1	μ A
		V <sub>R</sub> = 80 V			0.5	
Total capacitance	C <sub>T</sub>	V <sub>R</sub> = 0, f = 1.0 MHz		0.9	3.0	pF
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> = 10 mA		1.6	4.0	ns

### ■ Marking

Marking	G3
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