

Small Signal Switching Diode

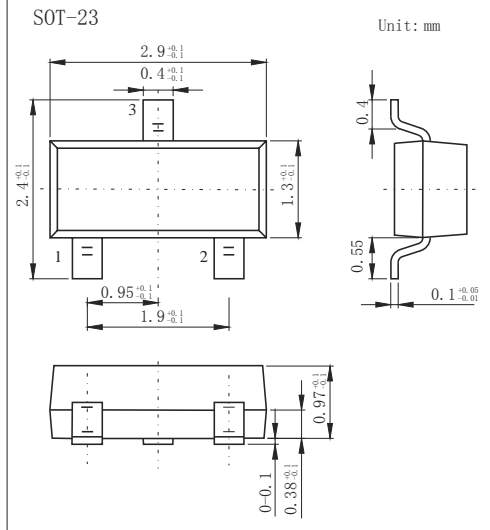
VOLTAGE RANGE: 85V
PEAK PULSE POWER:150mW

FEATURES

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

MECHANICAL DATA

- Case: SOT-23 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Peak Reverse Voltage	V_{RM}	85	V
DC Reverse Voltage	V_R	80	V
Peak Reverse Current	I_{FM}	300	mA
Average Rectified Current	I_o	100	mA
Surge Current (10 ms)	I_{FSM}	2	A
DC Forward Current	P	150	mW
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	-55 to + 125	°C

Electrical Specification ($T_A=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous reverse voltage	V_F	$I_F = 1.0\text{ mA}$		0.6		V
		$I_F = 10\text{ mA}$		0.72		
		$I_F = 100\text{ mA}$		0.9	1.2	
Reverse current	I_R	$V_R = 30\text{ V}$			0.1	μA
		$V_R = 80\text{ V}$			0.5	
Total capacitance	C_T	$V_R = 0, f = 1.0\text{ MHz}$		0.9	3.0	pF
Reverse recovery time	t_{rr}	$I_F = 10\text{ mA}$		1.6	4.0	ns

Marking

Marking	G3
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