

## Small Signal Switching Diode

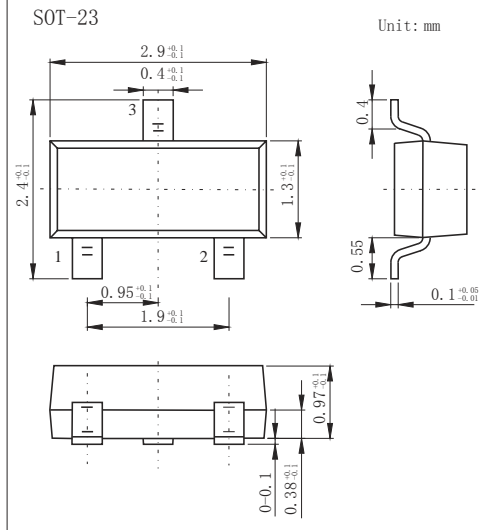
VOLTAGE RANGE: 85V  
PEAK PULSE POWER: 150mW

### 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	$\mu A$
		$V_R = 80\text{ V}$			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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