

## Small Signal Switching Diodes

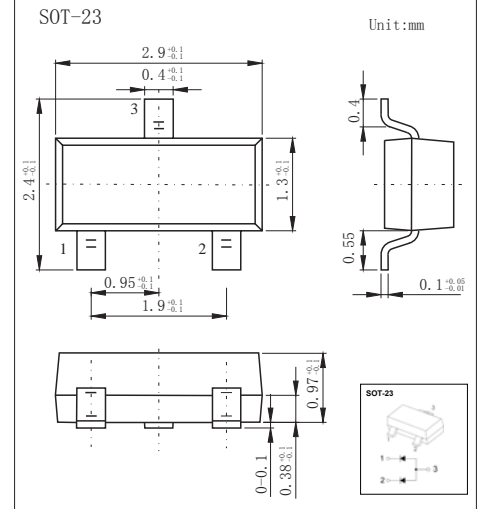
**VOLTAGE RANGE: 80V**  
**PEAK PULSE POWER:200mW**

### FEATURES

- High Speed
- High Reliability
- Suitable for High Packing Density Layout

### 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)

Symbol	Parameter	Value	Unit
$V_R$	DC Blocking Voltage	80	V
$I_O$	Continuous Forward Current	100	mA
$I_{FM}$	Peak Forward Current	300	mA
$I_{FSM}$	Non-repetitive Peak Forward Surge Current@t= 8.3ms	2	A
$P_D$	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	625	°C/W
$T_j$	Junction Temperature	150	°C
$T_{stg}$	Storage Temperature	-55~+150	°C

## Electrical Specification ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	80			V
Reverse current	$I_R$	$V_R=70\text{V}$			0.1	$\mu\text{A}$
Forward voltage	$V_F$	$I_F=100\text{mA}$			1.2	V
Total capacitance	$C_{tot}$	$V_R=6\text{V}, f=1\text{MHz}$			3.5	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=5\text{mA}, V_R=6\text{V}$			4	ns

### MARKING: P



# RATINGS AND CHARACTERISTIC CURVES

