

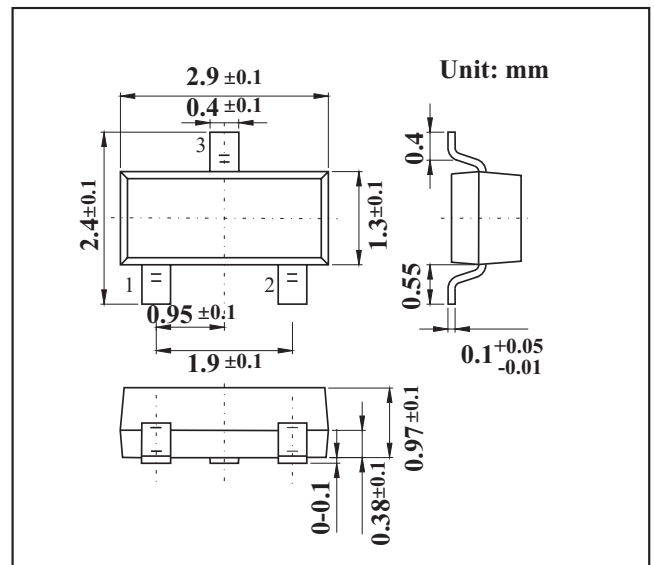
## SOT-23 Small Signal Switching Diodes

### Features

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

### 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	Limit	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	85	V
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$		
Working Peak Reverse Voltage	$V_{RWM}$	80	V
DC Blocking Voltage	$V_R$		
Forward Continuous Current	$I_{FM}$	300	mA
Average Rectified Output Current	$I_O$	100	mA
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	$I_{FSM}$	2	A
Power Dissipation	$P_D$	150	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	833	°C/W
Operation Junction and Storage Temperature Range	$T_J, T_{STG}$	-55~+150	°C

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

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 100\mu\text{A}$	80		V
Reverse voltage leakage current	$I_R$	$V_R = 80\text{V}$		0.5	$\mu\text{A}$
Forward voltage	$V_F$	$I_F = 100\text{mA}$		1.2	V
Diode capacitance	$C_D$	$V_R = 0\text{V}, f = 1\text{MHz}$		3	pF
Reverse recovery time	$t_{rr}$	$I_F = 10\text{mA}$		4	ns

## RATINGS AND CHARACTERISTIC CURVES

