

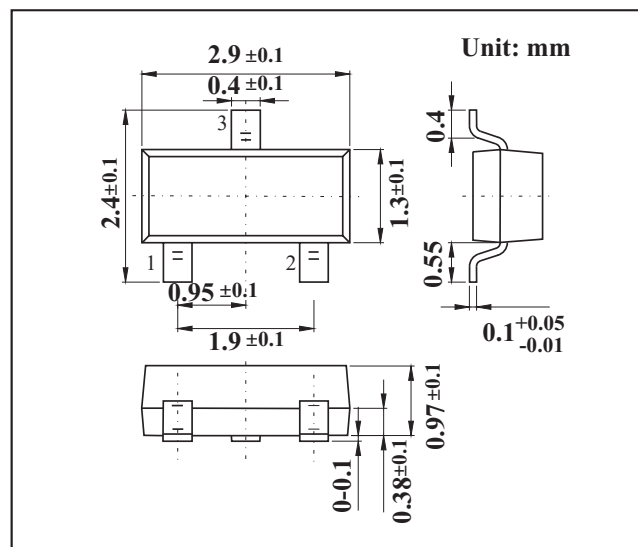
SOT-23 Small Signal Switching Diodes

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High reliability
- High temperature soldering guaranteed:260 °C/10 seconds at terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case style: SOT-23 molded plastic
- Mounting position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Characteristic	Symbol	Limits	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	V
DC Reverse Voltage	V_R	80	V
Forward current(max)	I_{FM}	300	mA
Surge current (10ms)	I_{FSM}	2	A
Forward Output current	I_o	100	mA
Power Dissipation	P_d	150	mW
Operating Junction Temperature Range	T_j	125	°C
Storage Temperature Range	T_{STG}	-55 to +125	°C

Characteristic	Symbol	Min	Typ	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	80	-	-	V	$I_R = 100\mu A$
Forward Voltage	V_F	-	0.61 0.74 0.92	1.2	V	$I_F = 1mA$ $I_F = 10mA$ $I_F = 100mA$
Reverse Leakage Current	I_R	-		0.1 0.5	μA	$V_R = 30V$ $V_R = 80V$
Total Capacitance	C_T	-	2.2	4.0	pF	$V_R = 0V, f = 1.0MHz$
Reverse Recovery Time	t_{rr}	-	1.6	4.0	ns	$I_F = I_R = 10mA, I_{rr} = 0.1 * I_R$

RATINGS AND CHARACTERISTIC CURVES

