

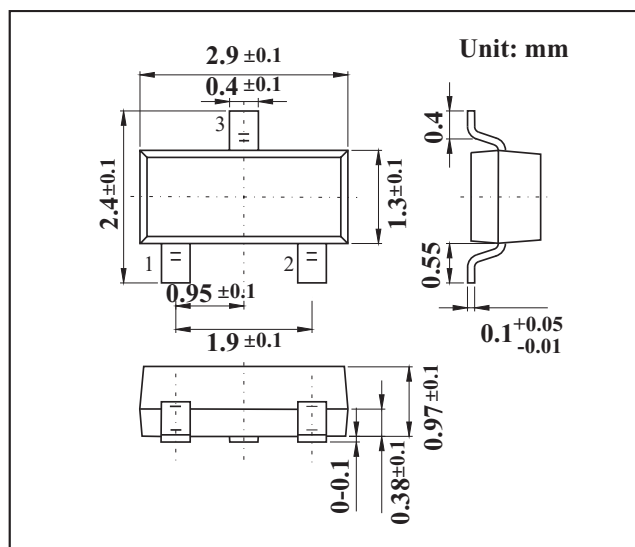
SOT-23 Small Signal Switching Diodes

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

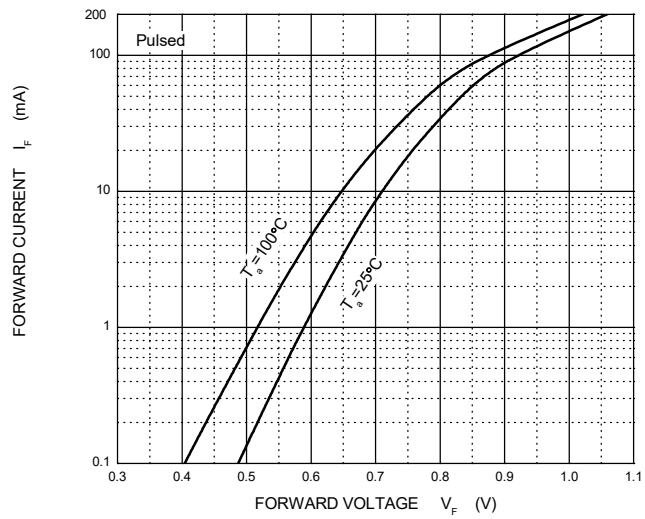
@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _{RM}	100	V
Peak Repetitive Reverse Voltage	V _{RRM}	75	
Working Peak Reverse Voltage	V _{RWM}		
RMS Reverse Voltage	V _{RMS}	53	
Average Rectified Output Current	I _O	200	mA
Non-Repetitive Peak Forward Surge Current @ t = 1us @ t = 1s	I _{FSM}	2	A
		1	
Power Dissipation	P _d	225	mW
Thermal Resistance Junction to Ambient	R _{θJA}	556	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature range	T _{stg}	-55 to 150	

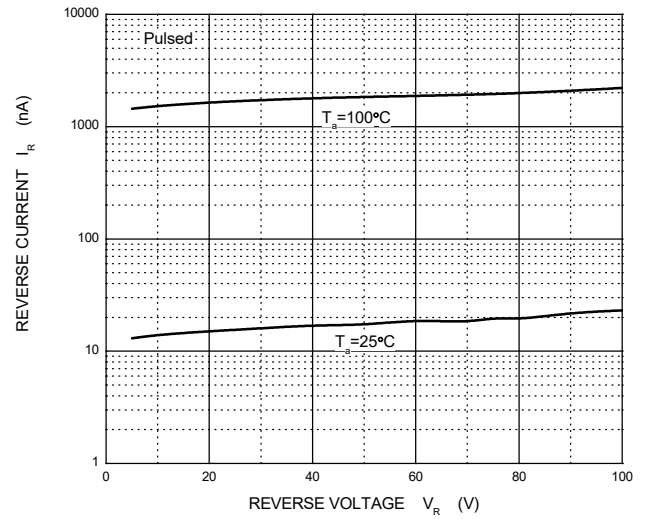
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	$I_R = 100 \mu A$	100			V
Forward voltage	V_F	$I_F = 1 mA$			0.7	
		$I_F = 10 mA$			0.82	
		$I_F = 100 mA$			1.1	
Reverse voltage leakage current	I_R	$V_R = 50 V$			1	μA
		$V_R = 100 V$			3	
Diode capacitance	C_T	$V_R = 0 V, f = 1 MHz$			2	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 10 mA, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$			4	ns

RATINGS AND CHARACTERISTIC CURVES

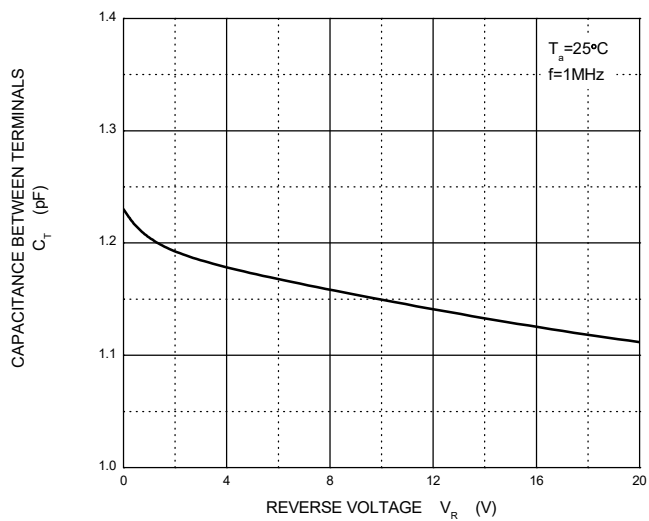
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

