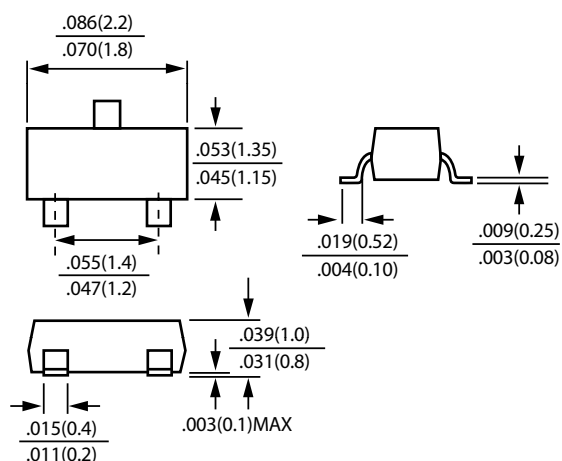
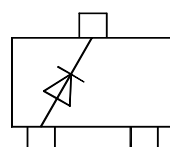
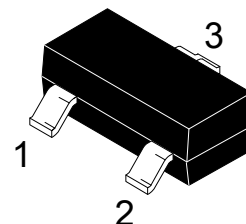




SOT-323

Dimensions in inches and (millimeters)



Marking: A2

Features

- Fast switching speed
- High conductance
- For general purpose switching applications

Absolute Maximum Ratings TA = 25°C unless otherwise noted			
PARAMETER	SYMBOL	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V_R	53	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	150	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0µs @ t = 1.0s	I_{FSM}	2.0 1.0	A
Power Dissipation (Note 1)	P_D	200	mW
Thermal Resistance Junction to Ambient Air (Note	R_{thJA}	625	K / W
Operating and Storage Temperature Range	T_J, T_{STG}	150 , -65 ~ 150	°C

Electrical Characteristics TA = 25°C unless otherwise noted					
PARAMETER	SYMBOL	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	V_{RM}	75	-	V	$I_R = 1.0\mu A$
Forward Voltage	V_{FM}	-	0.715 0.855 1.0 1.25	V	$I_F = 1.0mA$ $I_F = 10mA$ $I_F = 50mA$ $I_F = 150mA$
Peak Reverse Current	I_{RM}	-	1.0 25	μA nA	$V_R = 75V$ $V_R = 20V$
Total Capacitance	C_T	-	2	pF	$V_R = 0, f = 1.0MHz$
Reverse Recovery Time	t_{rr}	-	4	ns	$I_F = I_R = 10mA$ $I_{rr} = 0.1I_R, R_L = 100\Omega$

