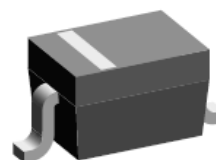


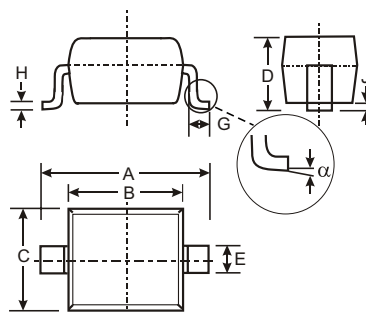
Features

- Very small plastic SMD package.
- High switching speed:max.4ns
- Continuous reverse voltage:max.100v
- Repetitive peak reverse voltage:max.100v
- Repetitive peak forward current:max.500mA



Mechanical Data

- Case: SOT-323, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagrams
- Marking: See Diagrams
- Mounting Position: Any
- Approx. Weight: 0.006 grams



SOD-323		
Dim	Min	Max
A	2.30	2.70
B	1.60	1.80
C	1.20	1.40
D	1.05 Typical	
E	0.25	0.35
G	0.20	0.40
H	0.10	0.15
J	0.05 Typical	
α	0°	8°
All Dimensions in mm		

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Value	Unit
DC Reverse Voltage	V_R	100	V
Forward Current	I_F	300	mA
Power Dissipation	P_d	200	mW
Junction and Storage Temperature Range	T_j, T_{STG}	-65 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	100	-	V	$I_R = 100\mu\text{A}$
Forward Voltage	V_F	0.62	0.715 0.855 1.0 1.25	V	$I_F = 1.0\text{mA}$ $I_F = 10\text{mA}$ $I_F = 50\text{mA}$ $I_F = 150\text{mA}$
Reverse Current	I_R	-	1.0 0.03	μA	$V_R = 75\text{V}$ $V_R = 25\text{V}$
Capacitance between terminals	C_T	-	1.5	pF	$V_R = 0, f = 1.0\text{MHz}$
Reverse Recovery Time	t_{rr}	-	4.0	ns	$I_F = I_R = 10\text{mA}, R_L = 100\Omega$

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

