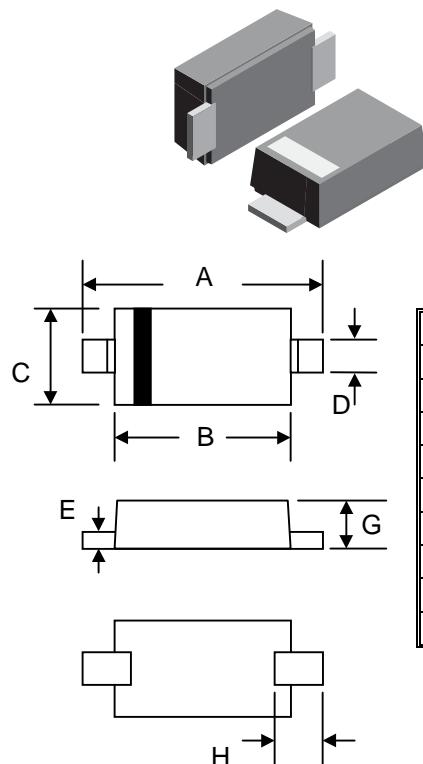


Features

- Silicon Epitaxial Planar Diodes
- Saving space
- Hermetic sealed parts

Mechanical Data

- Case: SOD-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.004 grams (approx.)
- Marking: A3



SOD-323		
Dim	Min	Max
A	2.30	2.70
B	1.75	1.95
C	1.15	1.35
D	0.25	0.35
E	0.05	0.15
G	0.70	0.95
H	0.30	—

All Dimensions in mm

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

Parameter	Test condition	Part	Symbol	Value	Unit
Peak reverse voltage		BAV300	V_{RPM}	60	V
		BAV301	V_{RPM}	120	V
		BAV302	V_{RPM}	200	V
		BAV303	V_{RPM}	250	V
Reverse voltage		BAV300	V_R	50	V
		BAV301	V_R	100	V
		BAV302	V_R	150	V
		BAV303	V_R	200	V
Forward continuous current			I_F	250	mA
Peak forward surge current	$t_p = 1 \text{ s}, T_j = 25^\circ\text{C}$		I_{FSM}	1	A
Forward peak current	$f = 50 \text{ Hz}$		I_{FM}	625	mA
Parameter	Test condition	Part	Symbol	Min	Typ. Max Unit
Forward voltage	$I_F = 100 \text{ mA}$		V_F		1000 mV
Reverse current	$V_R = 50 \text{ V}$	BAV300	I_R		100 nA
	$V_R = 100 \text{ V}$	BAV301	I_R		100 nA
	$V_R = 150 \text{ V}$	BAV302	I_R		100 nA
	$V_R = 200 \text{ V}$	BAV303	I_R		100 nA
	$T_j = 100^\circ\text{C}, V_R = 50 \text{ V}$	BAV300	I_R		15 μA
	$T_j = 100^\circ\text{C}, V_R = 100 \text{ V}$	BAV301	I_R		15 μA
	$T_j = 100^\circ\text{C}, V_R = 150 \text{ V}$	BAV302	I_R		15 μA
	$T_j = 100^\circ\text{C}, V_R = 200 \text{ V}$	BAV303	I_R		15 μA
Breakdown voltage	$I_R = 100 \mu\text{A}, t_p/T = 0.01, p = 0.3 \text{ ms}$	BAV300	$V_{(BR)}$	60	V
	$R = 100 \mu\text{A}, t_p/T = 0.01, p = 0.3 \text{ ms}$	BAV301	$V_{(BR)}$	120	V
		BAV302	$V_{(BR)}$	200	V
		BAV303	$V_{(BR)}$	250	V
Diode capacitance	$V_R = 0, f = 1 \text{ MHz}$		C_D	1.5	pF
Differential forward resistance	$I_F = 10 \text{ mA}$		r_f	5	Ω
Reverse recovery time	$I_F = I_R = 30 \text{ mA}, i_R = 3 \text{ mA}, R_L = 100 \Omega$		t_{rr}	50	ns

Typical Characteristics $T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

