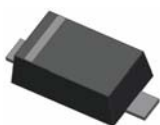
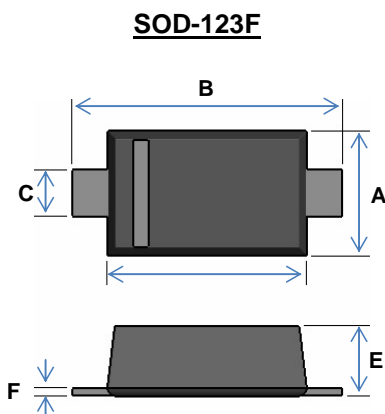


Small Signal Diode

Features

- ✧ These diodes are also available in DO-35, LL34 Package
- ✧ Surface device type mounting
- ✧ Moisture sensitivity level 1
- ✧ Matte Tin(Sn) lead finish with Nickel(Ni) underplate
- ✧ Pb free version and RoHS compliant
- ✧ Green compound (Halogen free) with suffix "G" on packing code and prefix "G" on date code

Mechanical Data

- ✧ Case : Flat lead SOD-323 small outline plastic package
- ✧ Terminal: Matte tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- ✧ High temperature soldering guaranteed: 260°C/10s
- ✧ Polarity : Indicated by cathode band
- ✧ Weight : 4.85±0.5 mg



Dimensions	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.5	1.7	0.059	0.067
B	3.3	3.7	0.130	0.146
C	0.5	0.7	0.020	0.028
D	2.5	2.7	0.098	0.106
E	0.8	1.0	0.031	0.039
F	0.05	0.2	0.002	0.008

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	Value	Units
Power Dissipation	P_D	410	mW
Repetitive Peak Reverse Voltage	V_{RRM}	250	V
Repetitive Peak Forward Current	I_{FRM}	625	mA
Mean Forward Current	I_o	200	mA
Non-Repetitive Peak Forward Surge Current Pulse Width= 1 μ sec	I_{FSM}	1.0	A
Thermal Resistance (Junction to Ambient) (Note 1)	$R_{\theta JA}$	375	°C/W
Junction and Storage Temperature Range	T_J, T_{STG}	-65 to + 150	°C

Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Reverse Breakdown Voltage	BAV19W	120	-	V
	BAV20W (Note 2)	200	-	
	BAV21W	250	-	
Forward Voltage	$I_F=100mA$	-	1.00	V
	$I_F=200mA$	-	1.25	
Reverse Leakage Current	BAV19W BAV20W (Note 3) BAV21W	-	100	nA
Junction Capacitance	$V_R=0, f=1.0MHz$		5.0	pF
Reverse Recovery Time	(Note4)		50	ns

Notes:1. Valid provided that electrodes are kept at ambient temperature

Notes:2. Test Condition : $I_R=100\mu A$

Notes:3. Test Condition : BAV19W @ $V_R=100V$, BAV20W @ $V_R=150V$, BAV21W @ $V_R=200V$

Notes:4. Test Condition : $I_F=I_R=30mA, R_L=100\Omega, I_{RR}=3mA$