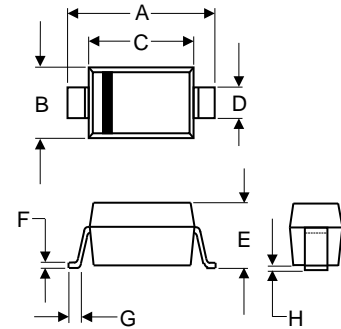


Features

- * High Voltage Switching Diode
- * Fast switching speed
- * Surface mount package ideally suited for automatic insertion
- * Marking Code: JX



RoHS
COMPLIANT



SOD-123				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.138	0.150	3.50	3.80
B	0.059	0.067	1.50	1.70
C	0.100	0.106	2.54	2.70
D	0.020	0.028	0.50	0.70
E	0.036	0.048	0.91	1.21
F	0.003	0.008	0.08	0.20
G	0.008	0.016	0.20	0.40
H	---	0.004	---	0.10

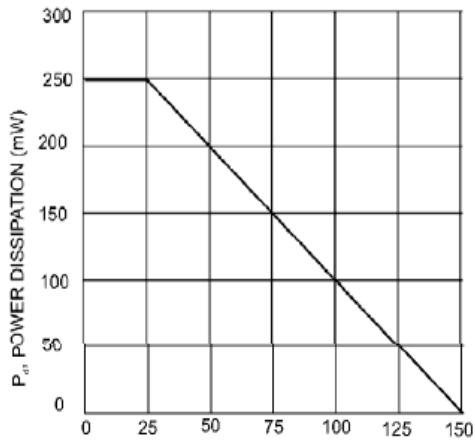
Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage BAV19W BAV20W BAV21W	V _{RRM}	120 200 250	V
Reverse Voltage BAV19W BAV20W BAV21W	V _R	100 150 200	V
Average Rectified Forward Current	I _{F(AV)}	200	mA
Forward Continuous Current	I _{FM}	400	mA
Repetitive Peak Forward Current	I _{FRM}	625	mA
Non-repetitive Peak Forward Surge Current at t = 1 ms at t = 1 s	I _{FSM}	2.5 0.5	A
Power Dissipation	P _d	250	mW
Operating and Storage Temperature Range	T _j / T _{stg}	- 65 to + 150	°C

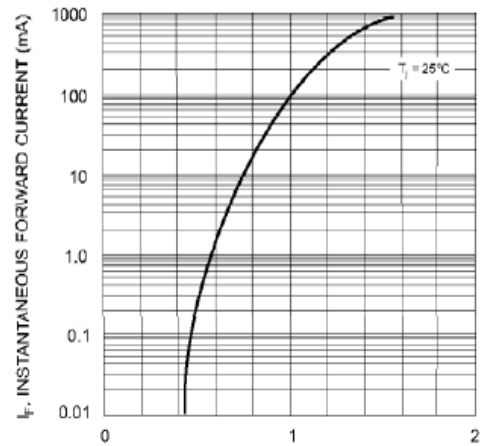
Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 100 mA at I _F = 200 mA	V _F	- -	1 1.25	V
Reverse Breakdown Voltage at I _R = 100 μA BAV19W BAV20W BAV21W	V _{(BR)R}	120 200 250	- - -	V
Reverse Current at V _R = 100 V at V _R = 150 V at V _R = 200 V	I _R	- - -	100 100 100	nA
Total Capacitance at V _R = 0, f = 1 MHz	C _T	-	5	pF
Reverse Recovery Time at I _F = I _R = 30 mA, I _{rr} = 0.1I _R , R _L = 100 Ω	t _{rr}	-	50	ns

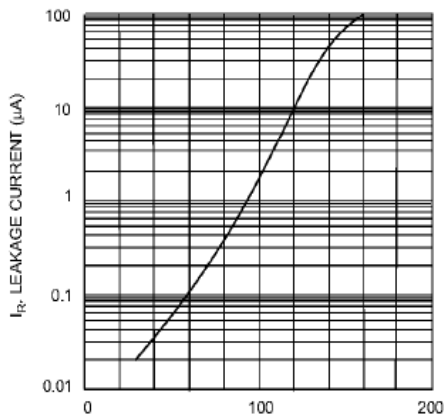
Ratings and Characteristic Curves



T_A AMBIENT TEMPERATURE (°C)
Fig. 1 Power Derating Curve



V_F INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics



T_J JUNCTION TEMPERATURE (°C)
Fig. 3 Leakage Current vs. Junction Temperature



BAV19W, BAV20W, BAV21W Silicon Epitaxial Planar Diodes

Ordering Information

Part No.	Package	Packing Code	Packing
BAV19W, BAV20W, BAV21W	SOD-123	R30	3000pcs/Reel

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