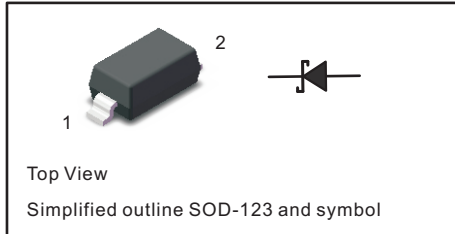


PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Features

- ◆ Fast switching speed
- ◆ Surface mount package ideally suited for automatic insertion

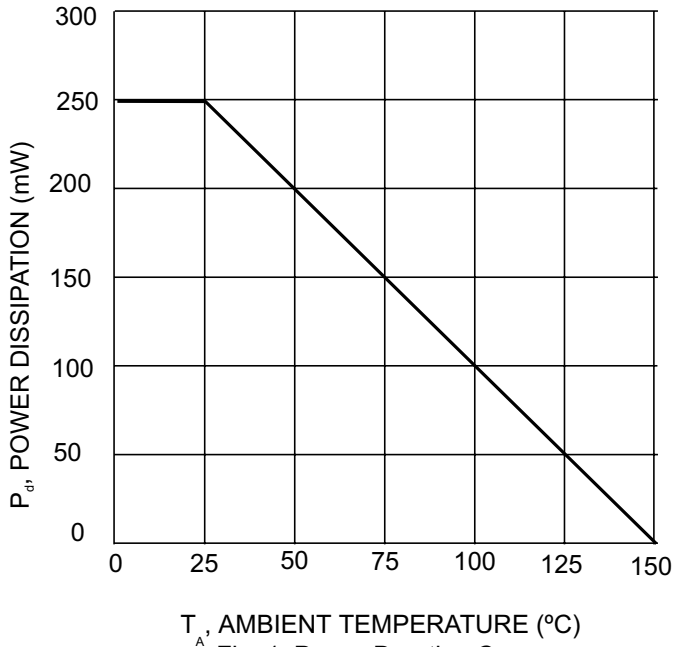
Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

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 $t = 1\text{ ms}$ at $t = 1\text{ s}$	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	$^\circ\text{C}$

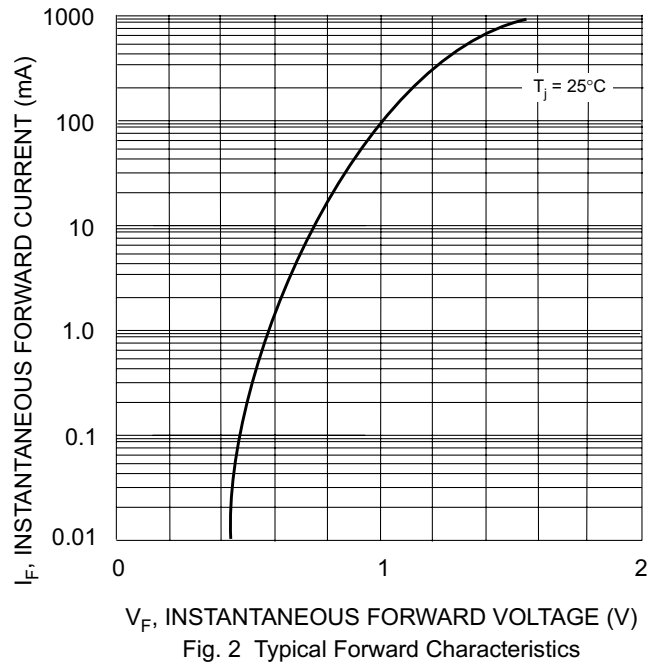
Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter		Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$ at $I_F = 200\text{ mA}$		V_F	- -	1 1.25	V
Reverse Breakdown Voltage at $I_R = 100\text{ }\mu\text{A}$	BAV19W BAV20W BAV21W	$V_{(BR)R}$	120 200 250	- - -	V
Reverse Current at $V_R = 100\text{ V}$ at $V_R = 150\text{ V}$ at $V_R = 200\text{ V}$	BAV19W BAV20W BAV21W	I_R	- - -	100 100 100	nA
Total Capacitance at $V_R = 0$, $f = 1\text{ MHz}$		C_T	-	5	pF
Reverse Recovery Time at $I_F = I_R = 30\text{ mA}$, $I_{rr} = 0.1I_R$, $R_L = 100\text{ }\Omega$		t_{rr}	-	50	ns

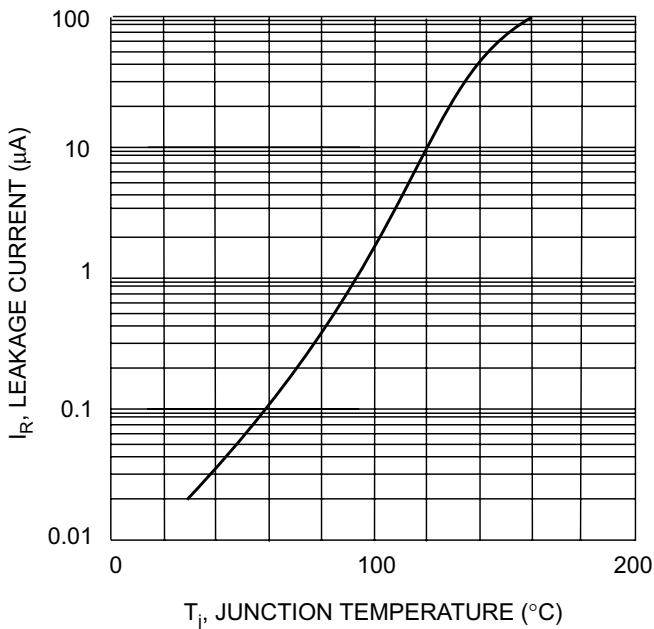
Typical Characteristics



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

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123

