

BAV19W ~ BAV21W

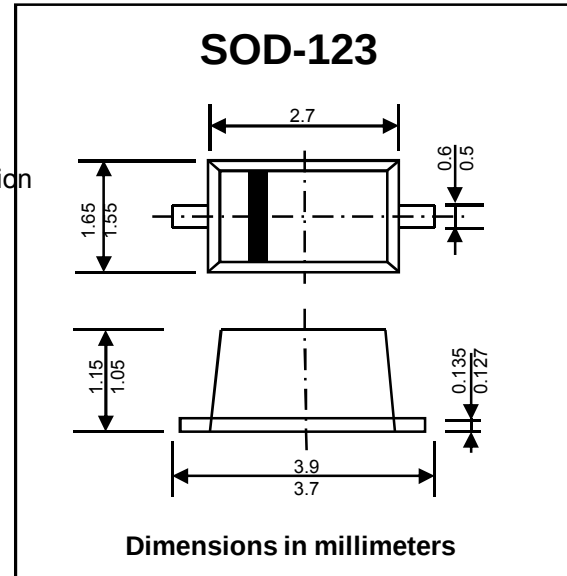
SURFACE MOUNT SWITCHING DIODES

FEATURES :

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : SOD-123 plastic Case
- * Weight : approx. 0.01 g
- * Marking Code : " JX "



Maximum Ratings and Thermal Characteristics (Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RRM}	120 200 250	V
Reverse Voltage	V_{RM}	100 150 200	V
Average Rectified Output Current	I_O	200	mA
Forward Continuous Current	I_{FM}	400	mA
Maximum Power Dissipation	P_D	250	mW
Maximum Repetitive Peak Forward Current	I_{FRM}	625	mA
Non-repetitive Peak Forward Surge Current at $t = 1\text{ms}$ $t = 1\text{s}$	I_{FSM}	2.5 0.5	A
Operating Junction Temperature	T_J	-65 to + 150	°C
Storage Temperature Range	T_{STG}	-65 to + 150	°C

Electrical Characteristics ($T_J = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 100\text{ mA}$ $I_F = 200\text{ mA}$	- -	- -	1.0 1.25	V
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\text{ }\mu\text{A}$	120 200 250	- - -	- - -	V
Reverse Current	I_R	$V_R = 100\text{ V}$ $V_R = 150\text{ V}$ $V_R = 200\text{ V}$	- - -	- - -	100 100 100	nA
Diode Capacitance	C_d	$f = 1\text{MHz}$; $V_R = 0$	-	-	5.0	pF
Reverse Recovery Time	T_{rr}	$I_F = 30\text{mA}$, $I_R = 30\text{mA}$ $I_{RR} = 0.1I_R$, $R_L = 100\text{ }\Omega$	-	-	50	ns

RATING AND CHARACTERISTIC CURVES (BAV19W ~ BAV21W)

FIG. 1 POWER DERATING CURVE

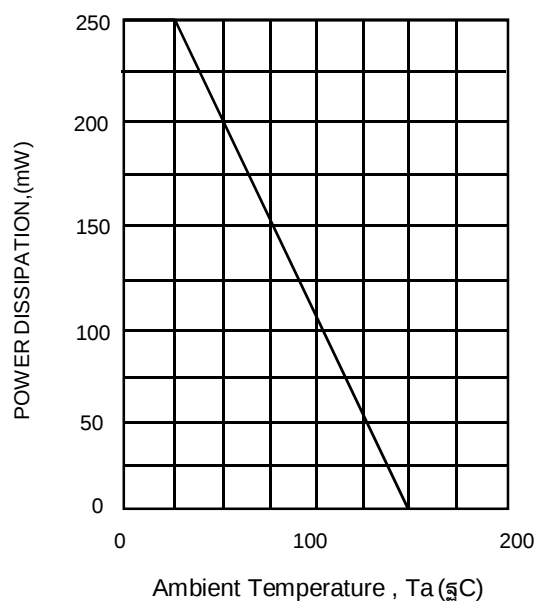


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

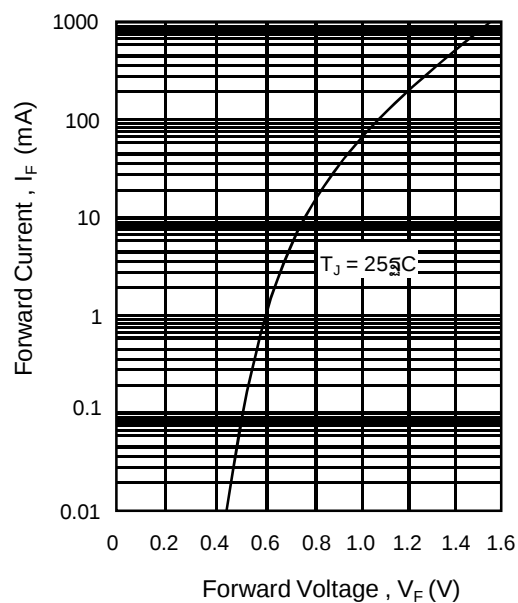


FIG. 3 TYPICAL REVERSE CURRENT VERSUS JUNCTION TEMPERATURE

