BAV19W~BAV21W

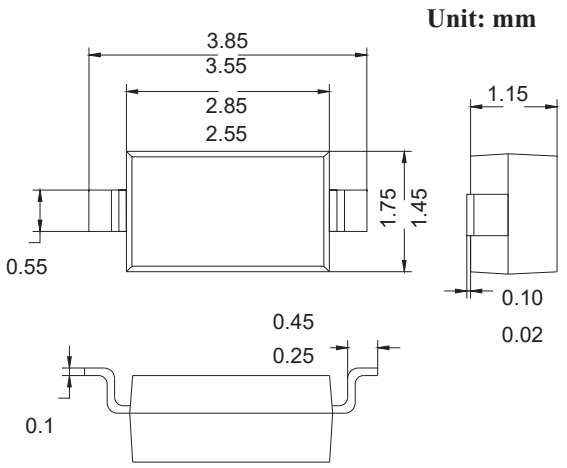
SOD-123 Small Signal Switching Diodes

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High reliability
- High temperature soldering guaranteed:260 ℃/10 seconds at terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case style: SOD-123 molded plastic
- Mounting position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

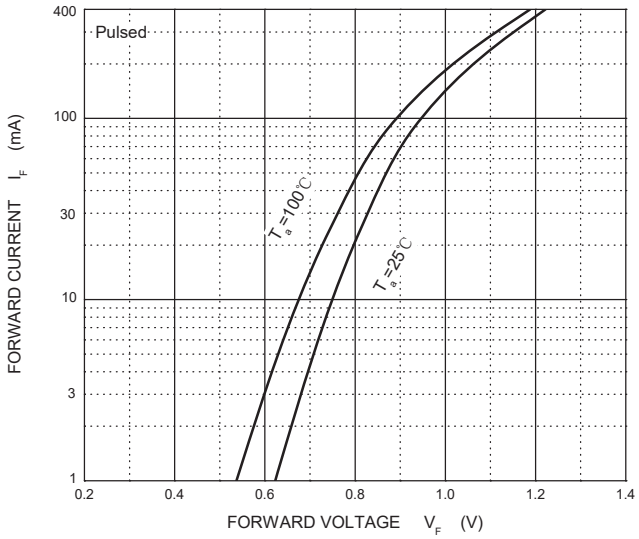
@ 25°C Ambient Temperature (unless otherwise noted)

Symbol	Parameter	Value			Unit
		BAV19W	BAV20W	BAV21W	
V_{RM}	Non-Repetitive Peak Reverse Voltage	120	200	250	V
V_{RRM}	Peak Repetitive Reverse Voltage	100	150	200	V
V_{RWM}	Working Peak Reverse Voltage				
$V_{R(RMS)}$	RMS Reverse Voltage	71	106	141	V
I_O	Average Rectified Output Current	200			mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	2.0			A
P_D	Power Dissipation	500			mW
$R_{\Theta JA}$	Thermal Resistance from Junction to Ambient	250			℃/W
T_j	Junction Temperature	150			℃
T_{stg}	Storage Temperature	-55~+150			℃

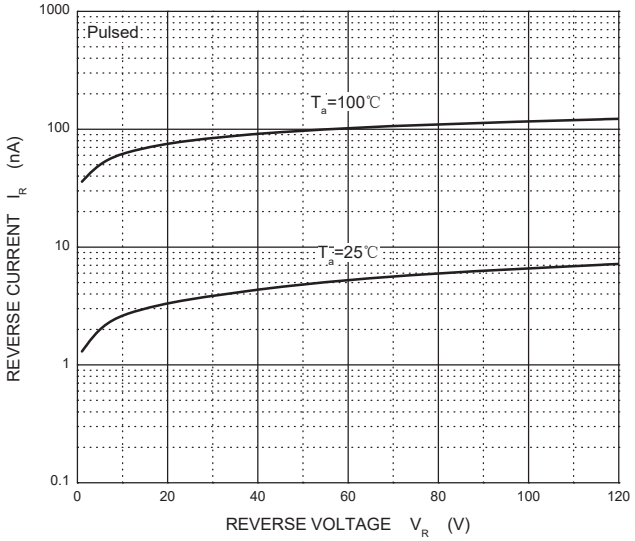
Parameter	Symbol	Test conditions		Min	Typ	Max	Un
Reverse current	I_R	V_R=100V	BAV19W			0.1	uA
		V_R=150V	BAV20W			0.1	
		V_R=200V	BAV21W			0.1	
Forward voltage	V_F	I_F=100mA				1	V
		I_F=200mA				1.25	
Total capacitance	C_{tot}	V_R=0V,f=1MHz				5	pF
Reverse recovery time	t_{rr}	I_F= I_R =30mA, I_{rr}=0.1*I_R , R_L=100Ω				50	ns

RATINGS AND CHARACTERISTIC CURVES

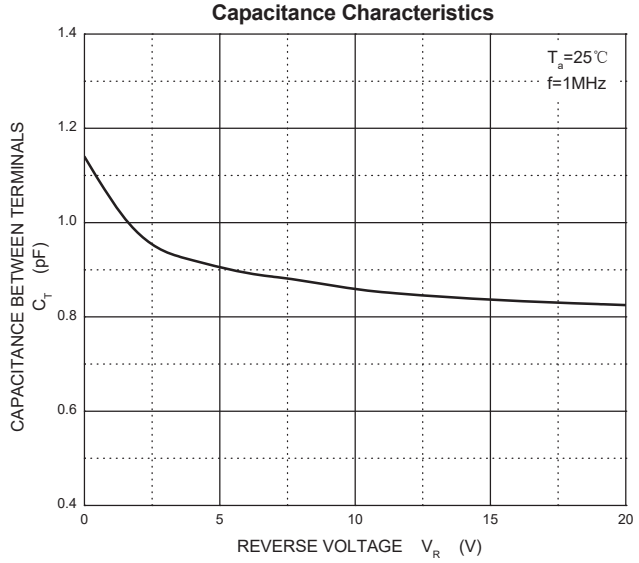
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve