

Small Signal Switching Diodes

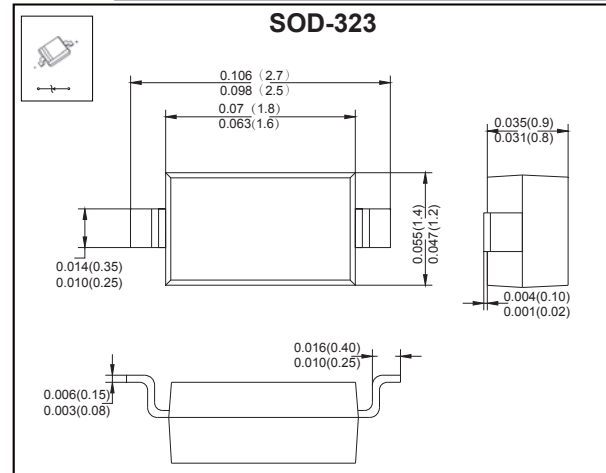
VOLTAGE RANGE: 120V-250V
PEAK PULSE POWER:250mW

FEATURES

- Low Reverse Current
- Surface Mount Package Ideally Suited for Automatic Insertion
- Fast Switching Speed
- For General Purpose Switching Applications

MECHANICAL DATA

- Case: SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

Symbol	Parameter	Value			Unit
		BAV19WS	BAV20WS	BAV21WS	
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	250			mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500			°C/W
T_j	Junction Temperature	150			°C
T_{stg}	Storage Temperature	-55~+150			°C

ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse current	I_R	$V_R=100V$	BAV19WS		0.1	uA
		$V_R=150V$	BAV20WS		0.1	
		$V_R=200V$	BAV21WS		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}	$I_F=I_R=30mA, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$			50	ns

MARKING:

BAV19WS	BAV20WS	BAV21WS
A8	T2	T3

RATINGS AND CHARACTERISTIC CURVES

Typical Characteristics

