

## Small Signal Switching Diodes

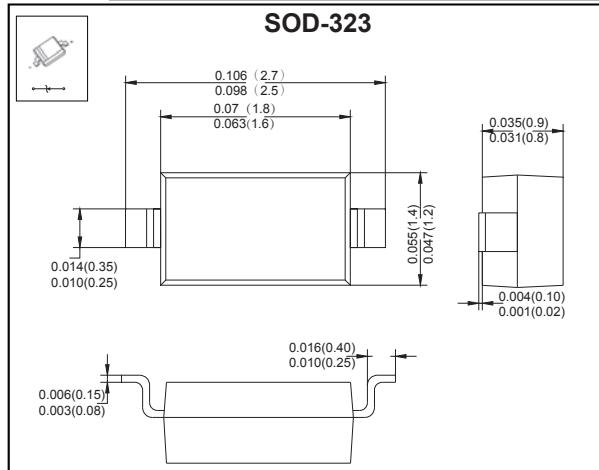
VOLTAGE RANGE: 120V-250V  
PEAK PULSE POWER: 250mW

### 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	$t_{rr}$	$I_F = I_R = 30mA, I_{rr}=0.1*I_R, R_L=100\Omega$				50	ns

#### MARKING:

BAV19WS	BAV20WS	BAV21WS
A8	T2	T3

# RATINGS AND CHARACTERISTIC CURVES

## Typical Characteristics

