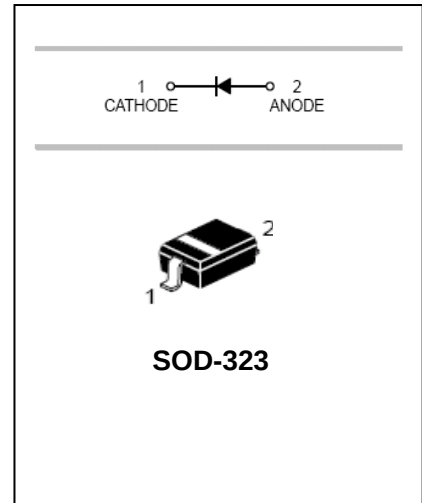

Silicon Epitaxial Planar Diode BAV19WS/BAV20WS/BAV21WS

FEATURES

- Fast Switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



Lead-free

**APPLICATIONS**

- Surface mount fast switching diode

ORDERING INFORMATION

Type No.	Marking	Package Code
BAV19WS	A8	SOD-323
BAV20WS	T2	SOD-323
BAV21WS	T3	SOD-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

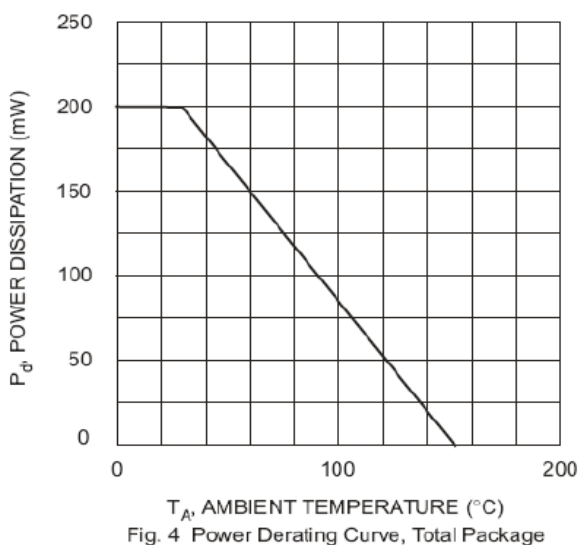
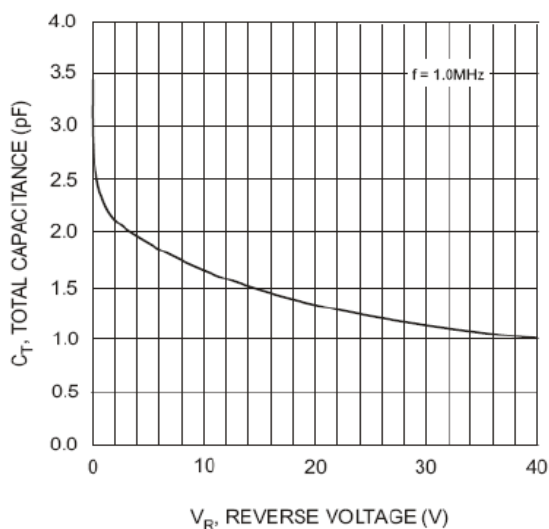
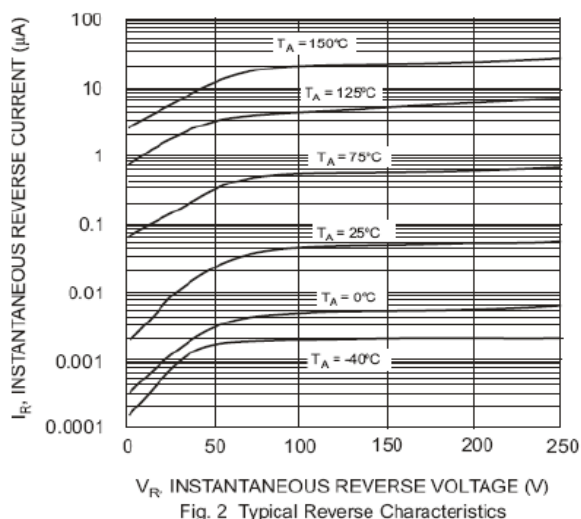
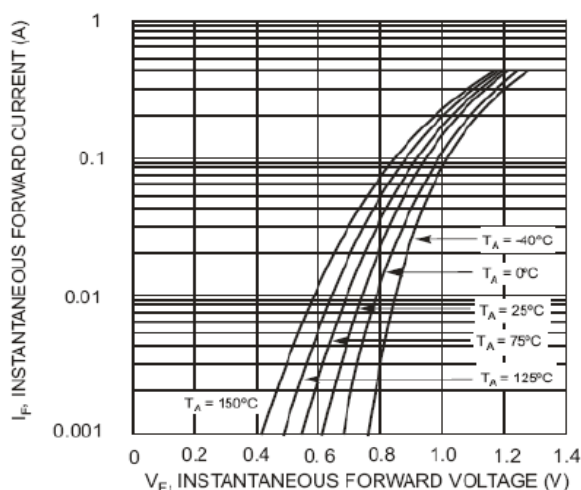
Characteristic	Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	120	200	250	V
Working Peak Reverse Voltage	V _{RWM}	100	150	200	V
DC Reverse Voltage	V _R				
RMS Reverse Voltage	V _{R(RMS)}	71	106	141	V
Forward Continuous Current	I _{FM}	400			mA
Average Rectified Output Current	I _o	200			mA
Non-Repetitive Peak Forward Surge Current @t=1.0 μs @t=1.0 s	I _{FSM}	2.5 0.5			
Repetitive Peak Forward Surge Current	I _{FRM}	625			mA
Power Dissipation	P _d	200			mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	625			°C/W
Operating and Storage Temperature Rage	T _j , T _{STG}	-65 to+150			°C

Silicon Epitaxial Planar Diode **BAV19WS/BAV20WS/BAV21WS**

ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Forward Voltage	V_{FM}	-	1.0 1.25	V	$I_F=100\text{mA}$ $I_F=200\text{mA}$
Reverse Current BAV19WS BAV20WS BAV21WS	I_R	-	0.1 0.1 0.1	μA	$V_R=100\text{V}$ $V_R=150\text{V}$ $V_R=200\text{V}$
Capacitance between terminals	C_T	-	5	pF	$V_R=0, f=1.0\text{MHz}$
Reverse Recovery Time	t_{rr}	-	50	ns	$I_F=I_R=30\text{mA}$, $I_{rr}=0.1 \times I_R, R_L=100\Omega$

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

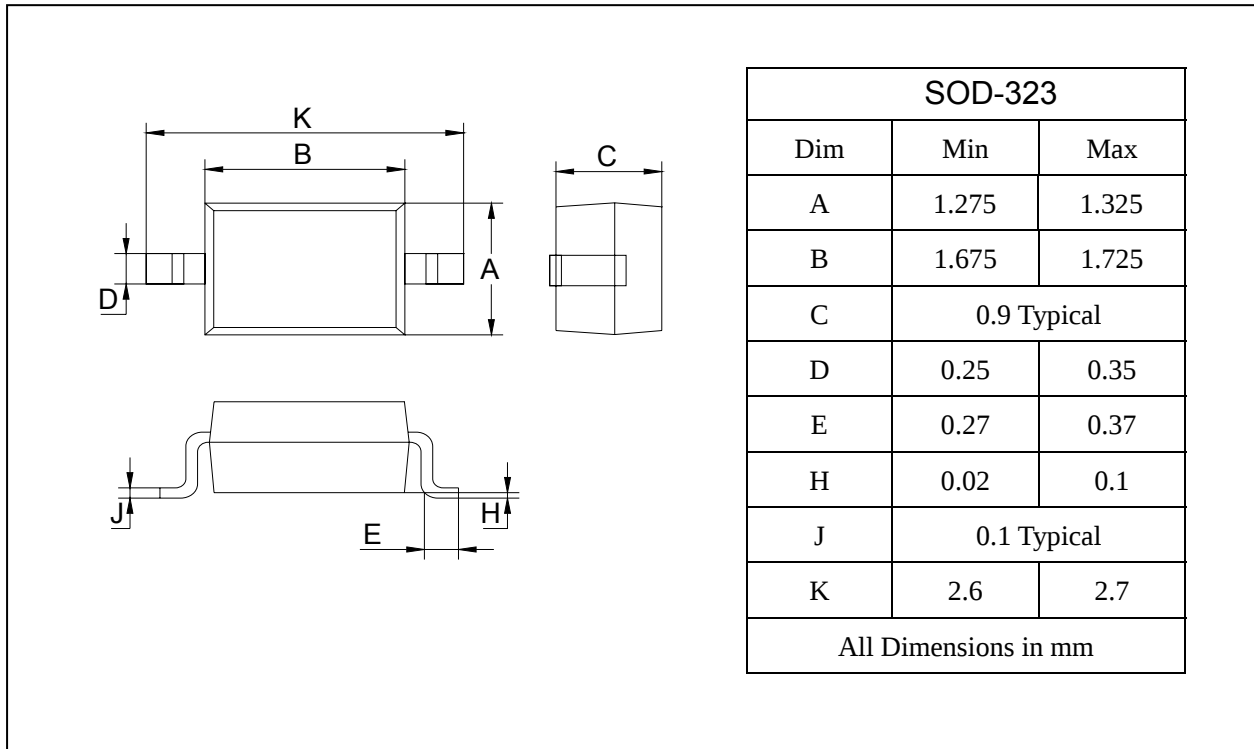


Silicon Epitaxial Planar Diode **BAV19WS/BAV20WS/BAV21WS**

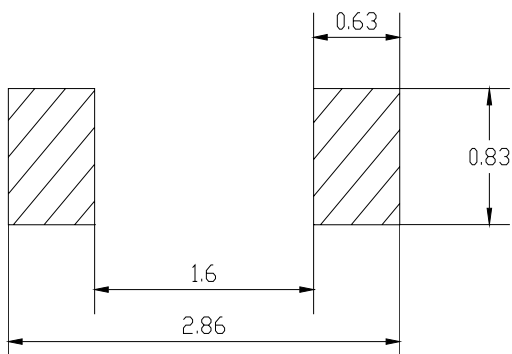
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
BAV19WS/20WS/21WS	SOD-323	3000/Tape&Reel