



浩畅半导体
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BA V19WS/BAV20WS/BAV21WS SOD-323

Silicon Epitaxial Planar Diode

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客户确认：

公司签章：

部门	工程部	品保部	采购部
签名			
日期			



BAV19WS/BAV20WS/BAV21WS

Silicon Epitaxial Planar Diode

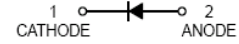
FEATURES

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

APPLICATIONS

- Surface mount fast switching diode

ORDERING INFORMATION



SOD-323

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 S	ymbol	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
Average Rectified Output Current	I_o	200			mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	2.5			A
@t=1.0 μ s					
@t=1.0 s		0.5			
Repetitive Peak Forward Surge Current	I_{FRM}	625			mA
Power Dissipation	P_d	200			mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	625			°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150			°C

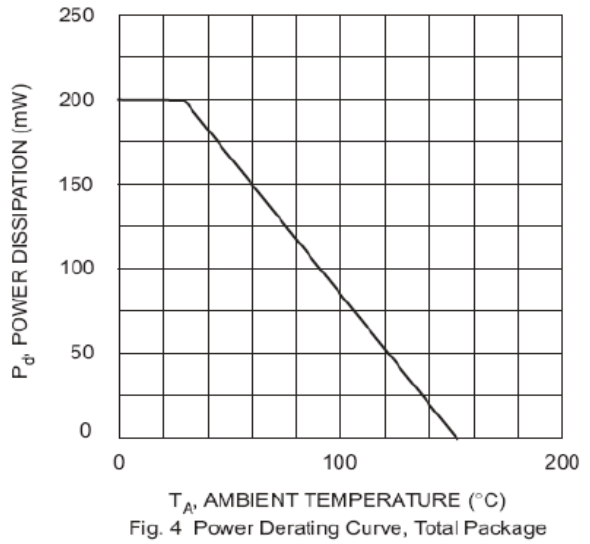
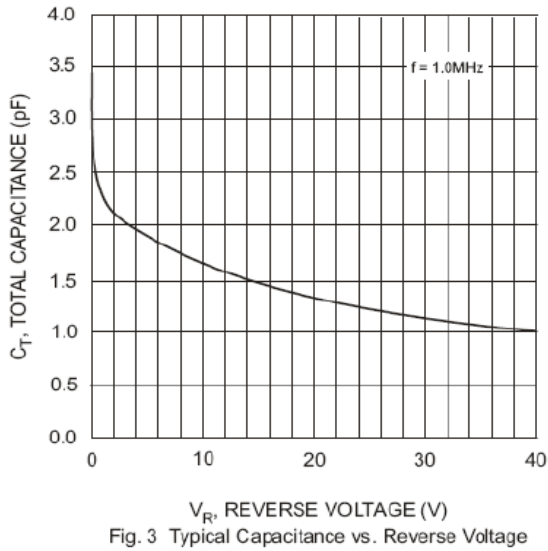
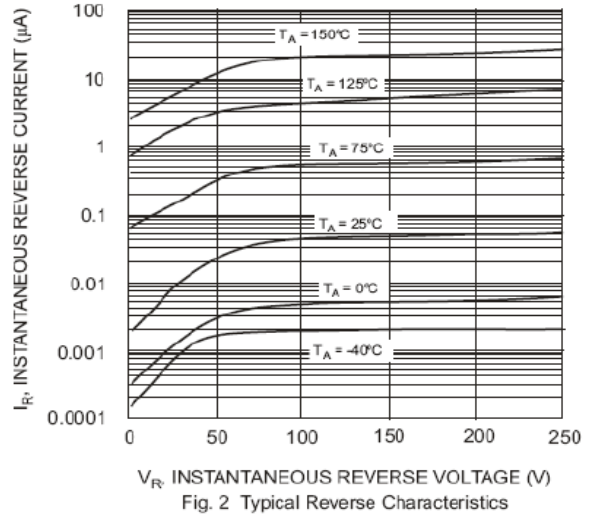
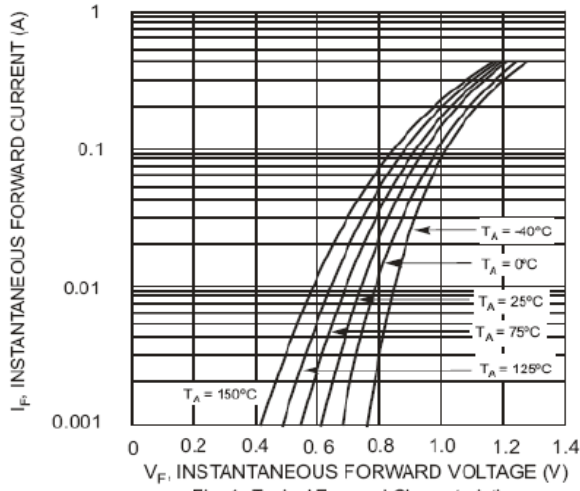
BAV19WS/BAV20WS/BAV21WS

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic S	ymbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage BAV19WS BAV20WS BAV21WS	$V_{(BR)R}$	120 200 250		V	$I_R=100\mu A$
Forward Voltage	V_{FM}	-	1.0 1.25	V	$I_F=100mA$ $I_F=200mA$
Reverse Current BAV19WS BAV20WS BAV21WS	I_R	-	0.1 0.1 0.1	μA	$V_R=100V$ $V_R=150V$ $V_R=200V$
Capacitance between terminals	C_T	-	5	pF	$V_R=0, f=1.0MHz$
Reverse Recovery Time	t_{rr}	-	50	ns	$I_F=I_R=30mA,$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$

BA V19WS/BAV20WS/BAV21WS

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

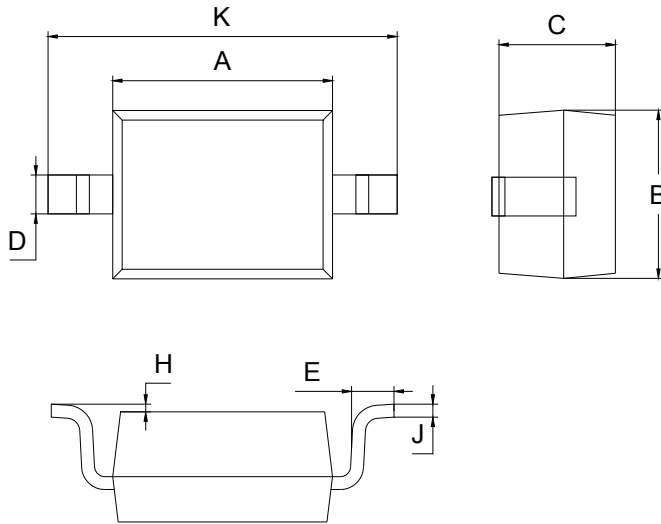


BA V19WS/BAV20WS/BAV21WS

PACKAGE OUTLINE

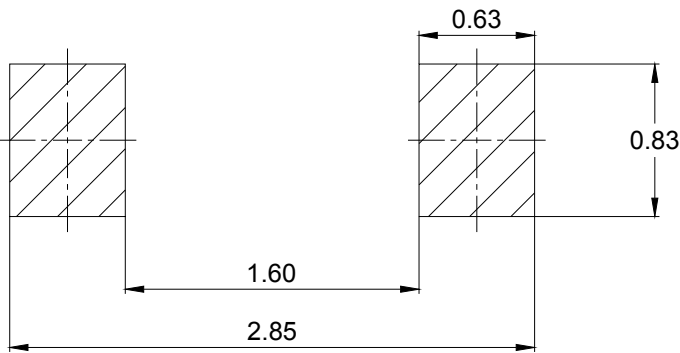
Plastic surface mounted package

SOD-323



SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.9 Max	
D	0.30 Typical	
E	0.22	0.42
H	0.02	0.1
J	0.1 Typical	
K	2.55	2.75
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

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