SURFACE MOUNT SWITCHING DIODES

BAV19WS BAV20WS BAV21WS

SOD-323
PLASTIC PCAKAGE

Marking:- with cathode band
BAV19WS= A8
BAV20WS= A80
BAV21WS= A82

Fast Switching Speed Diodes

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

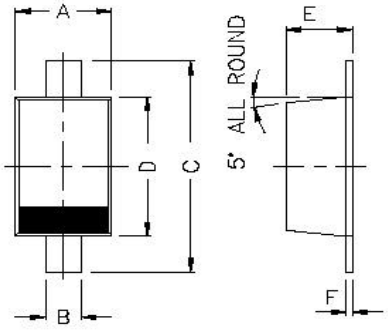
Rating at 25ºC Ambient Temperature unless specified otherwise. For Capacitive Load, Derate Current by 20%

DESCRIPTION	SYMBOL	BAV19WS	BAV20WS	BAV21WS	UNIT
Reverse Voltage	V_R	100	150	200	V
Repetitive Peak Reverse Voltage	V_{RRM}	120	200	250	V
Average Rectified Current, Half wave Rectification With Resistive Load and f >=50Hz	I_O	200			mA
Peak Forward Surge Current t =1us	I_{FSM}	2.5			A
Power Dissipation @ T_a=25ºC	P_D	200			mW
Maximum Forward Voltage at I_F =0.1A	V_F	1.0			V
Maximum Forward Voltage at I_F =0.2A	V_F	1.25			V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_j=25ºC	I_R	0.1			µA
Typical Junction Capacitance	*C_J	5.0			pF
Maximum Reverse Recovery	**T_{RR}	50			ns
Thermal Resistance Junction to Ambient	$R_{th\ (j-a)}$	640			ºC/W
Operating and Storage Junction Temperature Range	T_j, T_{stg}	- 55 to +150			ºC

*** CJ at VR=0, f=1MHz**
**** From I_F =10mA, I_R=1.0mA, V_R=6V, R_L=100W**

BAV19WS_BAV21WSRev_1 100905E

PACKAGE SOD–323 FL



DIM	MIN.	MAX.
A	1.15	1.35
B	0.25	0.40
C	2.30	2.80
D	1.60	1.80
E	0.80	1.10
F	0.00	0.15

All dimensions are in mm

CATHODE IS MARKED BY BAND

Component Disposal Instructions

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.

2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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