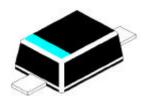




ISO 14001

SURFACE MOUNT SWITCHING DIODES

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 25°C 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	Ι _Ο	200			mA
Peak Forward Surge Current t =1us	I _{FSM}	2.5			А
Power Dissipation @ T _a =25 ^o C	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			μΑ
Typical Junction Capacitance	*CJ	5.0			pF
Maximum Reverse Recovery	**T _{RR}	50			ns
Thermal Resistance Junction to Ambient	R _{th (j-a)}	640			°C/W
Operating and Storage Junction Temperature Range	T_{j},T_{stg}	- 55 to +150		٥C	

* CJ at VR=0, f=1MHz

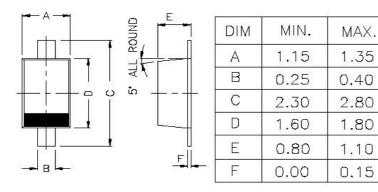
** From I_F =10mA, I_R =1.0mA, V_R =6V, R_L =100W

BAV19WS_BAV21WSRev_1 100905E

BAV19WS BAV20WS BAV21WS SOD-323

PLASTIC PCAKAGE

PACKAGE SOD-323 FL



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).

BAV19WS_BAV21WSRev_1 100905E

BAV19WS BAV20WS BAV21WS SOD-323

PLASTIC PCAKAGE

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).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



CDIL is a registered Trademark of Continental Device India Limited C-120 Naraina Industrial Area, New Delhi 110 028, India. Telephone + 91-11-2579 6150, 4141 1112 Fax + 91-11-2579 5290, 4141 1119 email@cdil.com www.cdilsemi.com