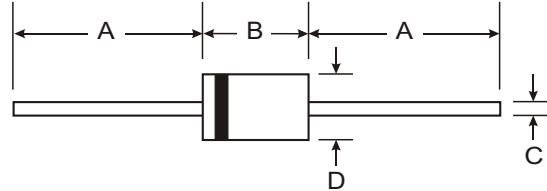


### Features

- Glass Package for High Reliability
- Planar Die Construction
- Low Reverse Leakage Current
- Also available in Surface Mount Package (BAV20W and BAV21W)



### Mechanical Data

- Case: DO-35, Glass
- Leads: Solderable per MIL-STD-202, Method 208
- Marking: Cathode Band and Type Number
- Weight: 0.13 grams (approx.)

DO-35		
Dim	Min	Max
A	25.40	—
B	—	4.00
C	—	0.60
D	—	2.00
All Dimensions in mm		

### Maximum Ratings @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	BAV20	BAV21	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	200	250	V
Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RWM</sub> V <sub>R</sub>	150	200	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	106	141	V
Forward Continuous Current (Note 1)	I <sub>FM</sub>	250		mA
Average Rectified Output Current (Note 1)	I <sub>0</sub>	200		mA
Forward Surge Current @ t = 1.0s	I <sub>FSM</sub>	1.0		A
Repetitive Peak Forward Current (Note 1)	I <sub>FRM</sub>	625		mA
Power Dissipation (Note 1)	P <sub>d</sub>	500		mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R <sub>θJA</sub>	300		K/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +175		°C

### Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Maximum Forward Voltage	V <sub>FM</sub>	—	—	1.0	V	I <sub>F</sub> = 100mA
Maximum Peak Reverse Current	I <sub>R</sub>	—	—	100 15 100 15	nA μA nA μA	V <sub>R</sub> = 150V V <sub>R</sub> = 150V, T <sub>J</sub> = 100°C V <sub>R</sub> = 200V V <sub>R</sub> = 200V, T <sub>J</sub> = 100°C
Dynamic Forward Resistance	r <sub>f</sub>	—	5.0	—	Ω	I <sub>F</sub> = 10mA
Junction Capacitance	C <sub>j</sub>	—	1.5	—	pF	V <sub>R</sub> = 0, f = 1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	—	—	50	ns	I <sub>F</sub> = I <sub>R</sub> = 30mA to I <sub>R</sub> = 3.0mA; R <sub>L</sub> = 100 Ω

Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 8.0mm.

