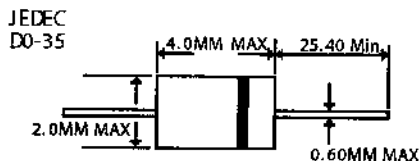
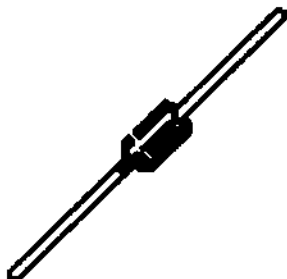


Description

Mechanical Dimensions

BAV20~21



Features

- n Glass Package & Planar Process
- n Low Reverse leakage Current
- n 500 mW POWER DISSIPATION
- n Case: DO-35 Glass Package for high Reliability
- n MEETS UL SPECIFICATION 94V-0

	BAV20	BAV21	Units
Repetitive Peak Reverse voltage V_{RRM}	200	250	Volts
Working Peak Reverse Voltage... V_{RWM}	150	200	Volts
RMS Reverse Voltage... $V_{R(rms)}$	106	141	Volts
Average Forward Rectified Current... I_o	200		mAmps
Non-Repetitive Peak Forward Surge Current... I_{FSM}	250		mAmps
Power Dissipation... P_D	500		mW
Operating Temperature Range... T_j	-65 to +175		°C
Storage Temperature Range... T_{STRG}	-65 to +175		°C
Electrical Characteristics			
Maximum Forward Voltage... V_F @ $I_F = 100$ mA	1.0		Volts
Maximum DC Reverse Current... I_R @ $V_R = 75$ v	5.0		µAmps
Maximum Frequency ... f	1.0		MHz
Maximum Diode Capacitance $V_R=0, F=1.0$ MHz... C_D	1.5		pF
Maximum Reverse Recovery Time ($I_F=I_R=30$ mA~3.0mA, $R_I=100$ Ohms)... T_{RR}	50		ns
Maximum Peak Reverse Current	BAV20 BAV20 $T_J=100$ C BAV21 BAV21 $T_J=100$ C	100 15 100 15	nA µA nA µA

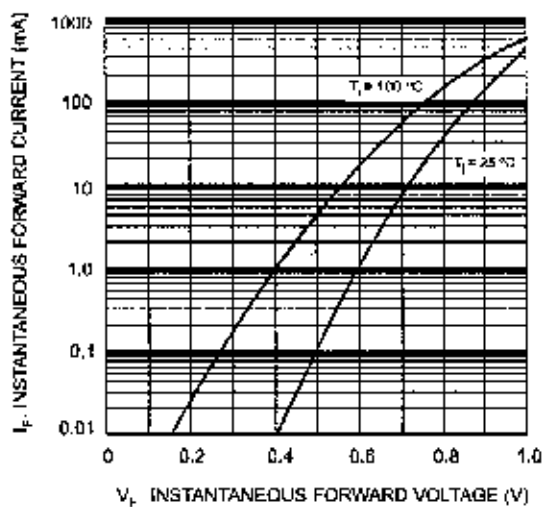


Fig. 1 Typical Forward Characteristics

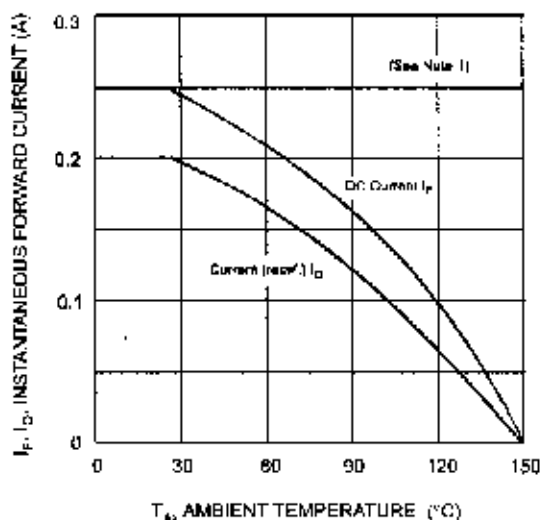


Fig. 2 Forward Current Degrading

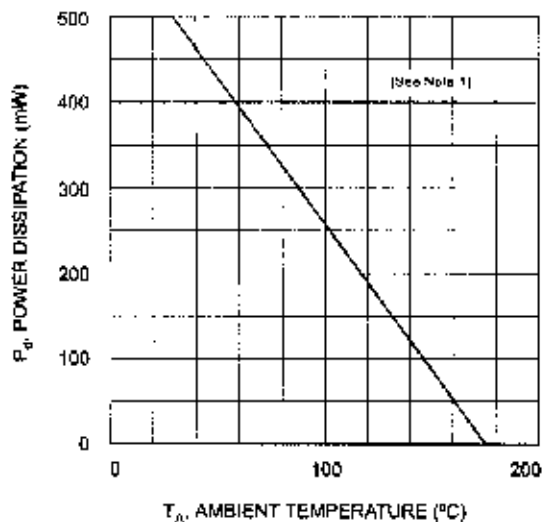


Fig. 3 Power Dissipation Degrading

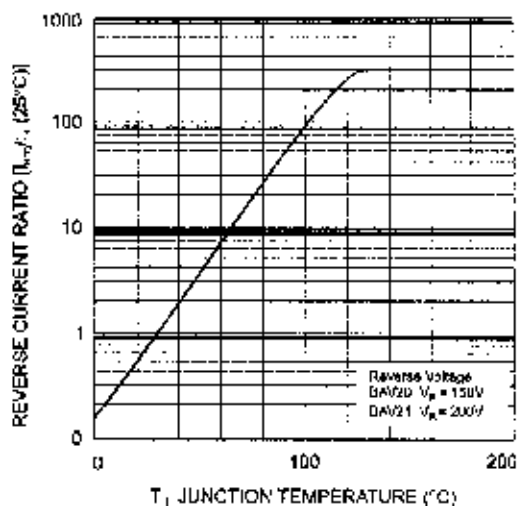


Fig. 4 Relative Reverse Current vs. Junction Temperature

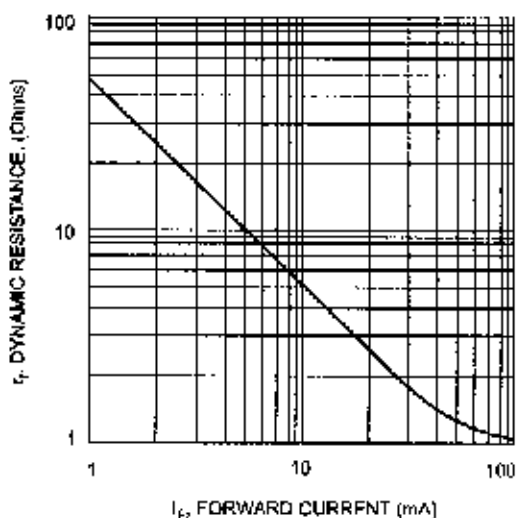


Fig. 5 Dynamic Forward Resistance vs. Forward Current

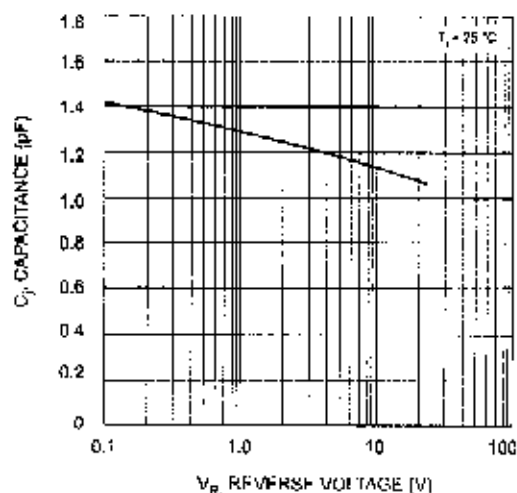


Fig. 6 Typical Junction Capacitance vs. Reverse Voltage