

Kingtronics®

BAV21

FEATURES AND BENEFITS

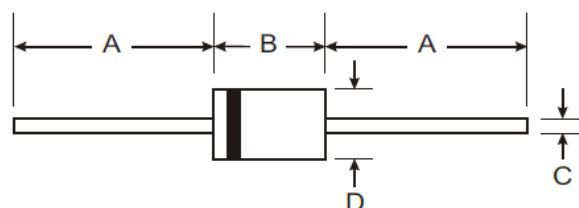
- Glass Package for High Reliability
- Planar Die Construction
- Low Reverse Leakage Current
- Also available in Surface Mount Package (BAV20W and BAV21W)

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.)

FAST SWITCHING DIODE

DO-35



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

Maximum Ratings @ TA = 25°C unless otherwise specified

Characteristic	Symbol	BAV21	UNITS
Repetitive Peak Reverse Voltage	V_{RRM}	250	V
Working Peak Reverse Voltage	V_{RWM}	200	V
DC Blocking Voltage	V_R	141	V
RMS Reverse Voltage	$V_{R(RMS)}$	141	V
Forward Continuous Current (Note 1)	I_{FM}	250	mA
Average Rectified Output Current (Note 1)	I_0	200	mA
Forward Surge Current @ t = 1.0s	I_{FSM}	1.0	A
Repetitive Peak Forward Current (Note 1)	I_{FRM}	625	mA
Power Dissipation (Note 1)	P_D	500	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	300	K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +175	°C

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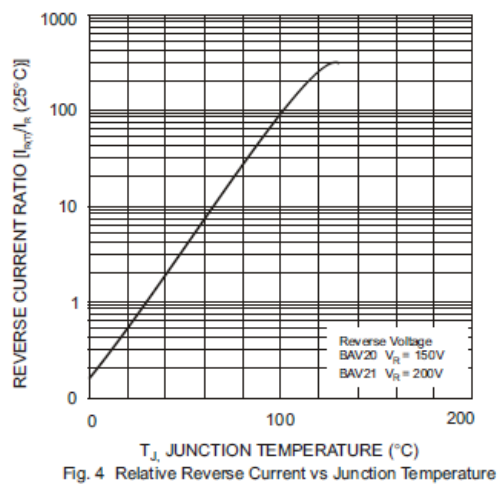
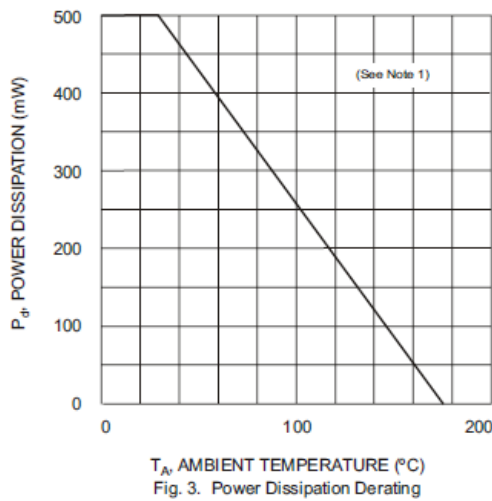
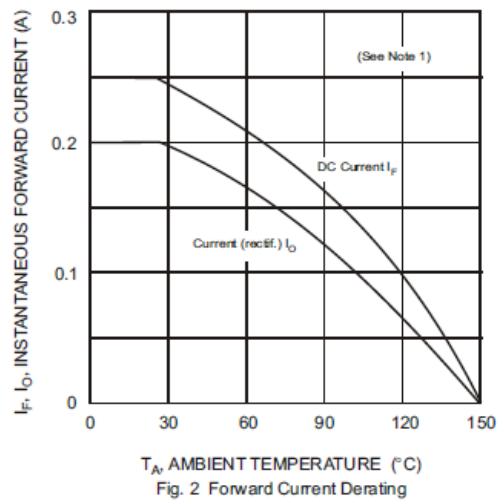
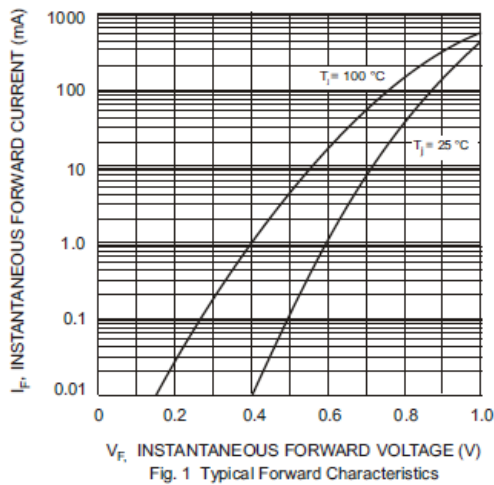
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Characteristics at Ta = 25 °C

Characteristic	Symbol	Min	TYP	Max	UNITS	Test Condition
Maximum Forward Voltage	V _{FM}	-	-	1.0	V	I _F = 100mA
Maximum Peak Reverse Current	BAV21	-	-	100	nA	V _R = 200V
	BAV21	I _R	-	15	μA	V _R = 200V, T _j = 100_°C
Dynamic Forward Resistance	r _f	-	5.0	-	Ω	I _F = 10mA
Junction Capacitance	C _j	-	1.5	-	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}	-	-	50	nS	I _F = I _R = 30mA to I _R = 3.0mA;
						R _L = 100 Ω

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

RATINGS AND CHARACTERISTIC CURVER



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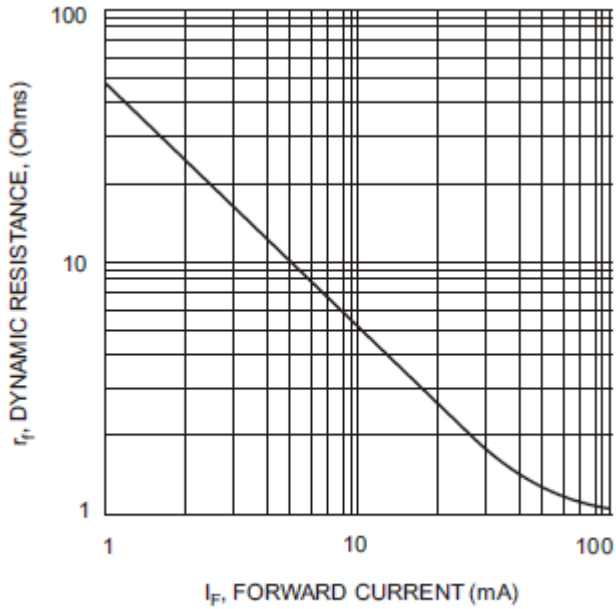


Fig. 5 Dynamic Forward Resistance vs Forward Current

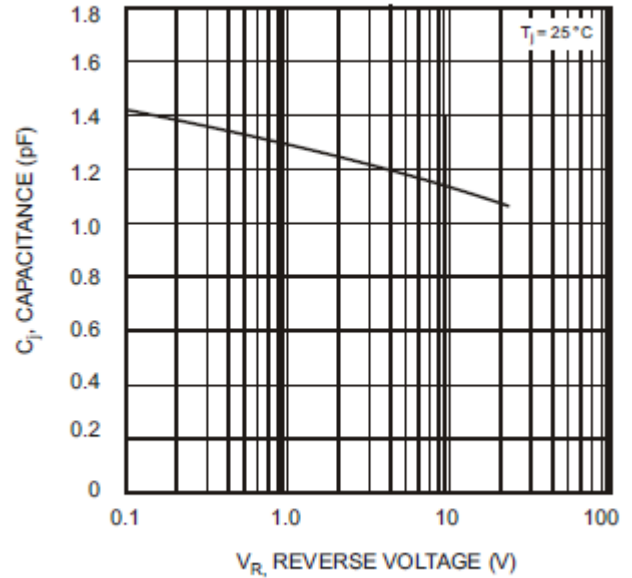


Fig. 6 Typical Junction Capacitance vs Reverse Voltage

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