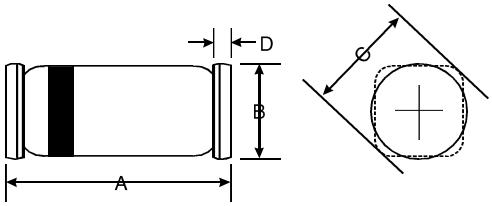
BAV201 - BAV203

SURFACE MOUNT SWITCHING DIODE

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance
- Outline Similar to JEDEC 213AA



Mechanical Data

- Case: QuadroMELF, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Marking: Cathode Band Only
- Weight: 0.034 grams (approx.)

QuadroMELF		
Dim	**Min**	**Max**
A	3.3	3.7
B	1.4	1.6
C	1.7 Typical	
D	0.3 Typical	
All Dimensions in mm		

Maximum Ratings @ T_A = 25 C unless otherwise specified

Characteristic	Symbol	BAV201	BAV202	BAV203	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	120	200	250	V
Working Peak Reverse Voltage DC Blocking Voltage	V_{RWM} V_R	100	150	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	71	106	141	V
Forward Continuous Current (Note 1)	I_{FM}	250			mA
Average Rectified Output Current (Note 1)	I_O	125			mA
Non-Repetitive Peak Forward Surge Current @ t < 1.0s	I_{FSM}	1.0			A
Power Dissipation	P_d	500			mW
Thermal Resistance Junction to Ambient Air (Note 1)	R_{JA}	300			K/W
Operating and Storage Temperature Range	T_j , T_{STG}	-65 to +175			C

Electrical Characteristics @ T_A = 25 C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage	V_{FM}		1.0	V	I_F = 100mA
Maximum Peak Reverse Current @ Rated DC Blocking Voltage	I_{RM}		100 15	nA A	T_A = 25 C T_A = 100 C
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, I_{rr} = 0.1 x I_R, R_L = 100

Notes: 1. Valid provided that electrodes are kept at ambient temperature.

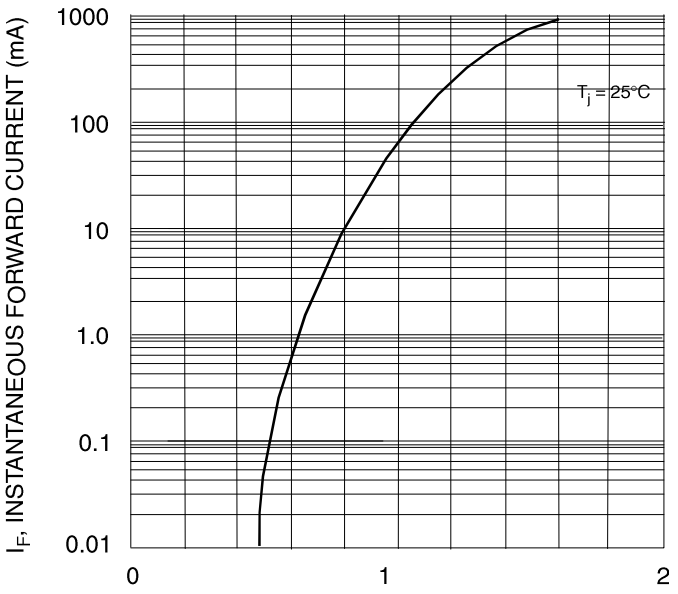


Fig. 1 Forward Characteristics

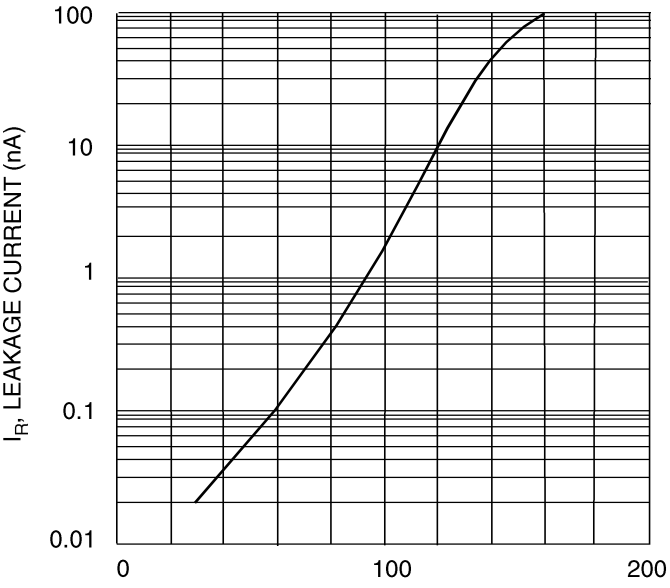


Fig. 2 Leakage Current vs Junction Temperature