

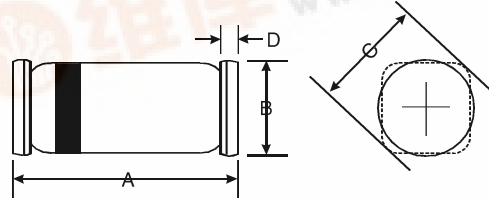


BAV201 - BAV203

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.



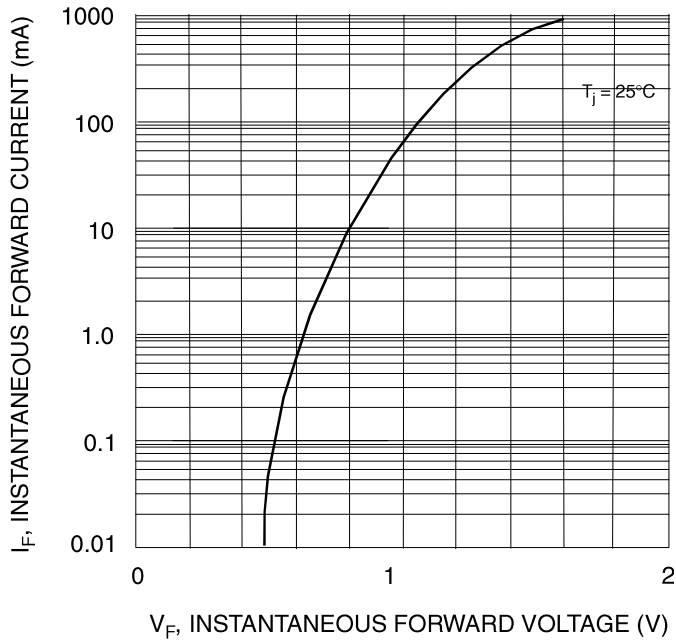


Fig. 1 Forward Characteristics

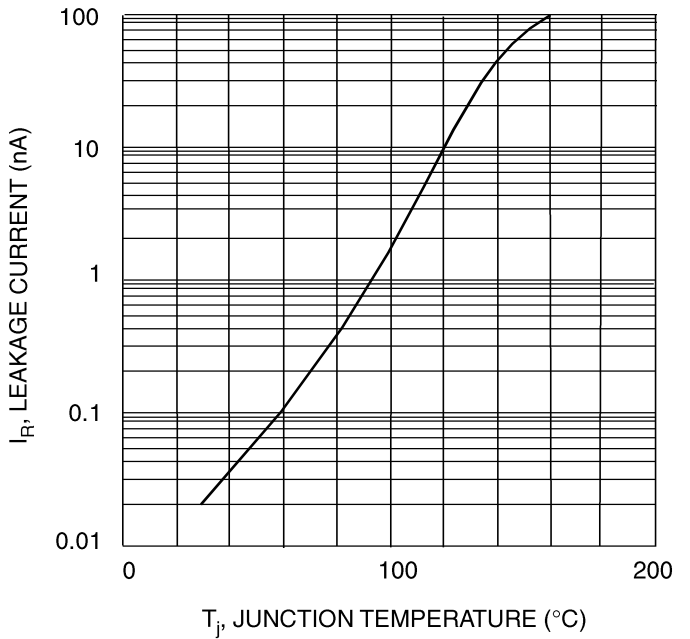


Fig. 2 Leakage Current vs Junction Temperature