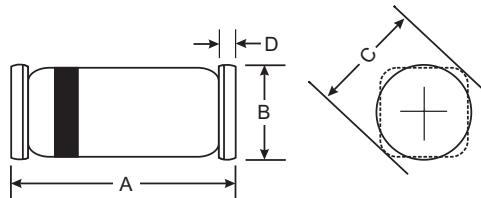


### Features

- 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	1.7Ø Typical	
D	0.3 Typical	
All Dimensions in mm		

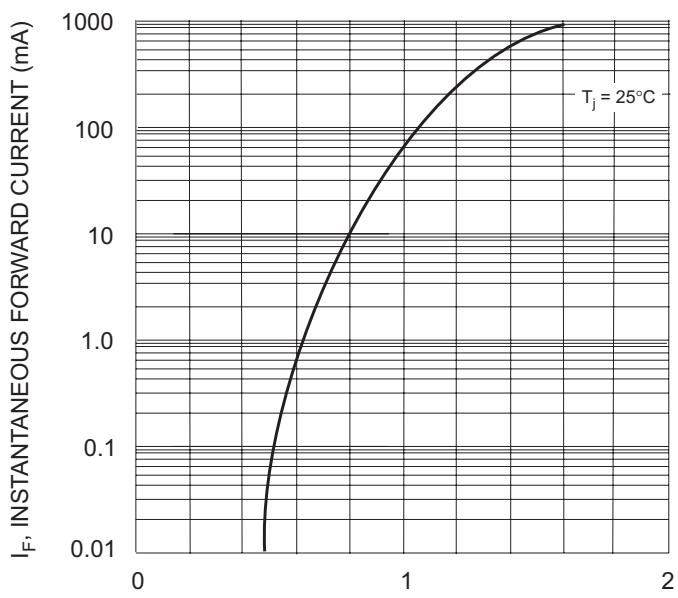
### Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

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 @ $t < 1.0\text{s}$	$I_{FSM}$		1.0		A
Power Dissipation	$P_d$		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

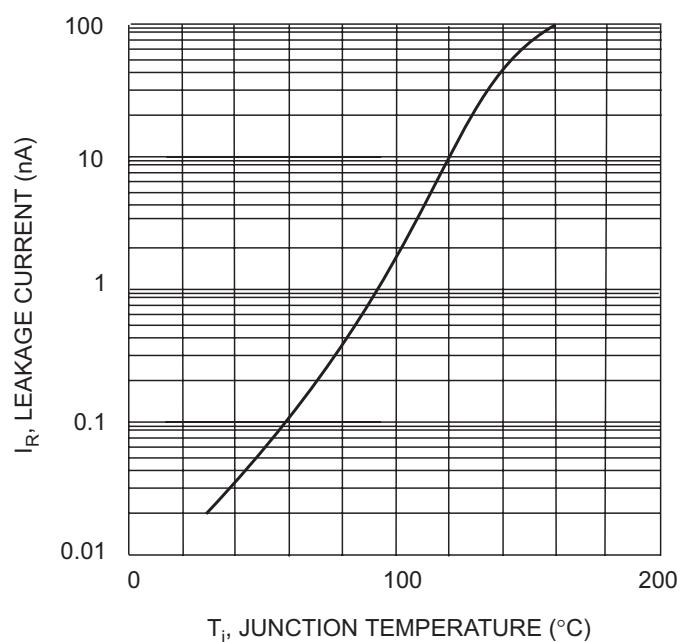
### Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage	$V_{FM}$	—	1.0	V	$I_F = 100\text{mA}$
Maximum Peak Reverse Current @ Rated DC Blocking Voltage	$I_{RM}$	—	100 15	nA μA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$
Junction Capacitance	$C_j$	—	1.5	pF	$V_R = 0$ , $f = 1.0\text{MHz}$
Reverse Recovery Time	$t_{rr}$	—	50	ns	$I_F = I_R = 30\text{mA}$ , $I_{rr} = 0.1 \times I_R$ , $R_L = 100\Omega$

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



$V_F$ , INSTANTANEOUS FORWARD VOLTAGE (V)  
Fig. 1 Forward Characteristics



$T_j$ , JUNCTION TEMPERATURE ( $^\circ\text{C}$ )  
Fig. 2 Leakage Current vs Junction Temperature