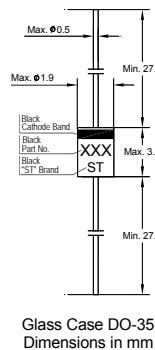


BAV19, BAV20, BAV21

Silicon Epitaxial Planar Diodes

High Voltage Switching Diodes



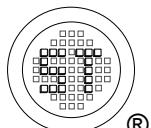
Glass Case DO-35
Dimensions in mm

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter		Symbol	Value	Unit
Repetitive Peak Reverse Voltage	BAV19	V_{RRM}	120	V
	BAV20		200	
	BAV21		250	
Reverse Voltage	BAV19	V_R	100	V
	BAV20		150	
	BAV21		200	
Continuous Forward Current		I_F	250	mA
Repetitive Peak Forward Current		I_{FRM}	625	mA
Non-repetitive Peak Forward Surge Current at $t = 1 \text{ s}$ at $t = 100 \mu\text{s}$ at $t = 1 \mu\text{s}$		I_{FSM}	1	A
			3	
			9	
Total Power Dissipation		P_{tot}	500	mW
Junction Temperature		T_j	175	°C
Storage Temperature Range		T_{stg}	- 65 to + 175	°C

Characteristics at $T_a = 25^\circ\text{C}$

Parameter		Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	BAV19	$V_{(BR)R}$	120	-	V
	BAV20		200	-	
	BAV21		250	-	
Forward Voltage at $I_F = 100 \text{ mA}$ at $I_F = 200 \text{ mA}$		V_F	-	1	V
			-	1.25	
Reverse Current at $V_R = 100 \text{ V}$ at $V_R = 150 \text{ V}$ at $V_R = 200 \text{ V}$ at $V_R = 100 \text{ V}, T_A = 150^\circ\text{C}$ at $V_R = 150 \text{ V}, T_A = 150^\circ\text{C}$ at $V_R = 200 \text{ V}, T_A = 150^\circ\text{C}$	BAV19	I_R	-	100	nA
	BAV20		-	100	
	BAV21		-	100	
	BAV19		-	100	
	BAV20		-	100	
	BAV21		-	100	
Diode Capacitance at $V_R = 0 \text{ V}, f = 1 \text{ MHz}$		C_d	-	5	pF
Reverse Recovery Time at $I_F = I_R = 30 \text{ mA}, I_{rr} = 3 \text{ mA}, R_L = 100 \Omega$		t_{rr}	-	50	ns



BAV19, BAV20, BAV21

