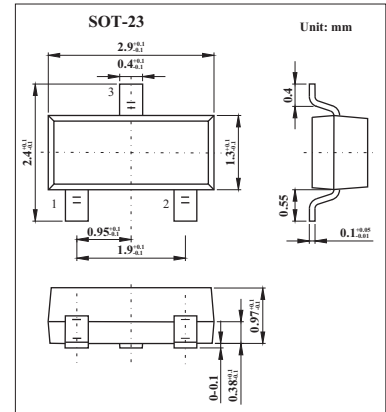
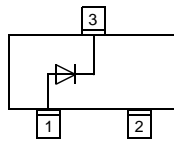


## Surface Mount Fast Switching Diode Array BAS19 - BAS21

### Features

- Fast switching speed
- Surface mount package Ideally suited for automatic insertion
- For general purpose switching applications



### Absolute Maximum Ratings Ta = 25

Parameter	Symbol	BAS19	BAS20	BAS21	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	120	200	250	V
Peak Repetitive Reverse Voltage	$V_{RRM}$				
Working Peak Reverse Voltage	$V_{RWM}$	100	150	200	V
DC Blocking Voltage	$V_R$				
RMS Reverse Voltage	$V_{R(RMS)}$	71	106	140	V
Average Rectified Output Current	$I_o$		200		mA
Forward Continuous Current	$I_{FM}$		400		mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0 $\mu$ s @ t = 1.0s	$I_{FSM}$		2.5		A
			0.5		
Repetitive Peak Forward Surge Current	$I_{FRM}$		625		mA
Power Dissipation	$P_d$		200		mW
Thermal Resistance Junction to Ambient Air	$R_{JA}$		625		K/W
Operating and Storage Temperature Range	T, T <sub>STG</sub>		-65 to +150		

### Electrical Characteristics Ta = 25

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit	
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100 \mu A$	BAS19	120			V
			BAS20	200			
			BAS21	250			
Forward Voltage	$V_F$	$I_F = 100mA$ $I_F = 200mA$			1.0 1.25	V	
Reverse Current @ Rated DC Blocking Voltage	$I_R$	$T_j = 25$ $T_j = 100$			100	nA	
					15	$\mu A$	
Junction Capacitance	$C_j$	$V_R = 0, f = 1.0MHz$			5	pF	
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 30mA, I_{rr} = 0.1 \times I_R, R_L = 100$			50	ns	

# BAS19 - BAS21

## Typical Characteristics

