

BAS21/A/C/S

SWITCHING DIODE

VOLTAGE	250 Volt	CURRENT	0.2 Ampere
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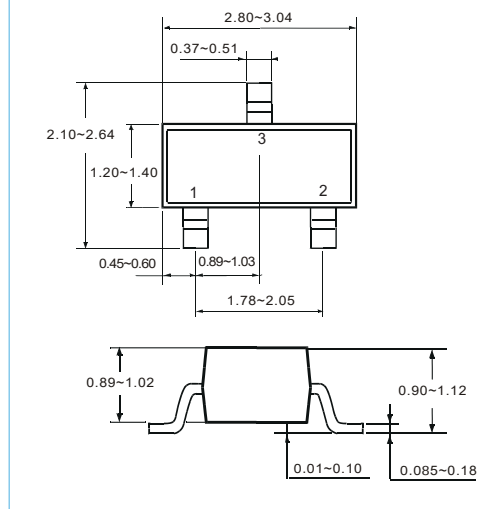
SOT-23 Unit:mm

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

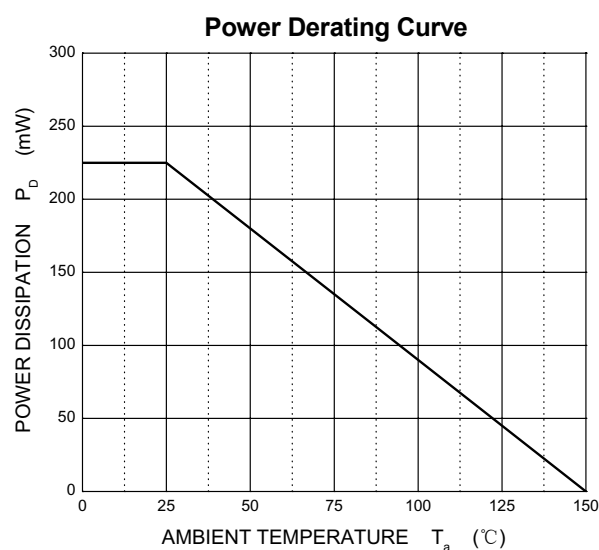
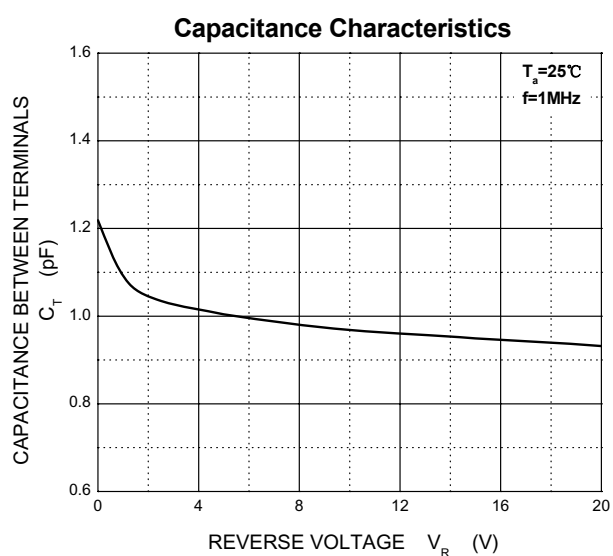
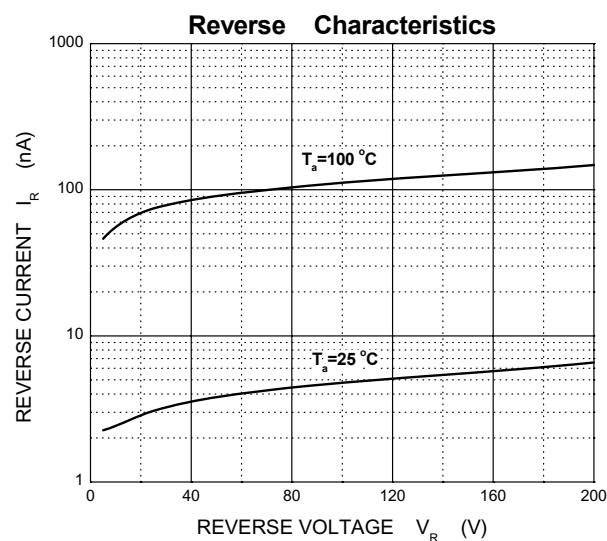
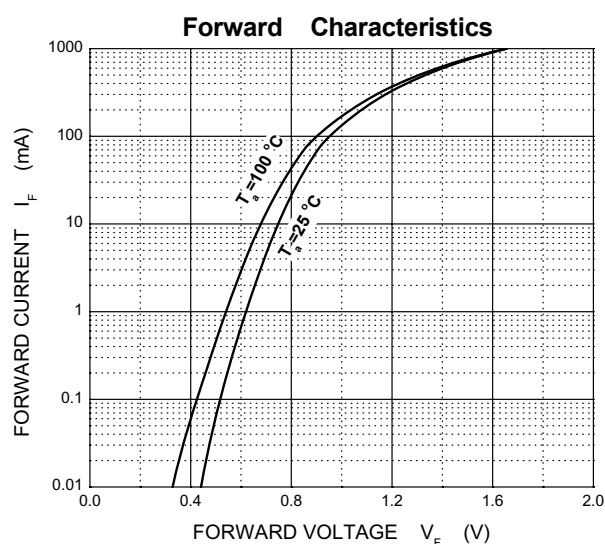
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	250	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
Forward Continuous Current	I_{FM}	400	mA
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	2.5	A
Repetitive Peak Forward Current @ $t \leq 1\text{s}, \delta \leq 0.5$	I_{FRM}	625	mA
Power Dissipation	P_D	225	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	555	$^\circ\text{C/W}$
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~+150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Min	Typ	Max	Unit	Test conditions
Reverse voltage	$V_{(BR)}$	250			V	$I_R=100\mu\text{A}$
Forward voltage	V_F			1.00 1.25	V	$I_F=100\text{mA}$ $I_F=200\text{mA}$
Reverse current	I_R			0.1	μA	$V_R=200\text{V}$
Diode capacitance	C_D			5	pF	$V_R=1\text{V}, f=1\text{MHz}$
Reverse recovery time	t_{rr}			50	ns	$I_F=I_R=30\text{mA}, I_{RR}=0.1I_R, R_L=100\Omega$

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Typical Characteristics

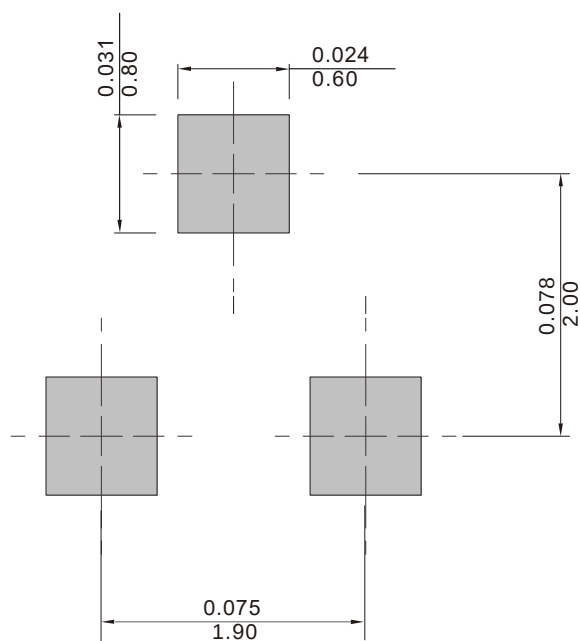


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MOUNTING PAD LAYOUT

SOT-23

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
BAS21/A/C/S	SOT-23	7 Inch	3000