

Features

- Fast switching speed
- High conductance

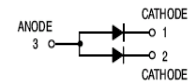
HF

Mechanical Data

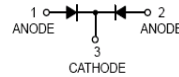
- Case: SOT-23
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208



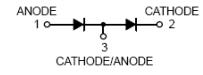
BAS21



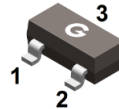
BAS21A



BAS21C



BAS21S



SOT-23

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
BAS21	SOT-23	3000 pcs / Tape & Reel	JS
BAS21A	SOT-23	3000 pcs / Tape & Reel	JS2
BAS21C	SOT-23	3000 pcs / Tape & Reel	JS3
BAS21S	SOT-23	3000 pcs / Tape & Reel	JS4

Maximum Ratings (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}	250	V
Working Peak Reverse Voltage	V _{RWM}	200	V
DC Blocking Voltage	V _R	200	V
RMS Reverse Voltage	V _{R(RMS)}	141	V
Forward Continuous Current	I _F	200	mA
Non-Repetitive Peak Forward Surge Current, t = 8.3ms	I _{FSM}	2	A
Non-Repetitive Peak Forward Surge Current, t = 1ms	I _{FSM}	2.5	A

Thermal Characteristics

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	250	mW
Thermal Resistance Junction-to-Air	$R_{\theta JA}$	500	$^{\circ}C/W$
Thermal Resistance Junction-to-Case	$R_{\theta JC}$	310	$^{\circ}C/W$
Operating Junction Temperature Range	T_J	-65 ~ +150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-65 ~ +150	$^{\circ}C$

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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\mu A$	250	-	-	V
Forward Voltage	V_F	$I_F = 100mA$	-	-	1.00	V
		$I_F = 200mA$	-	-	1.25	V
Maximum Peak Reverse Current	I_R	$V_R = 200V, T_J = 25^{\circ}C$	-	-	0.1	μA
		$V_R = 200V, T_J = 100^{\circ}C$	-	-	15	μA
Total Capacitance	C_J	$V_R = 0V, f = 1.0MHz$	-	-	5	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10mA$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$	-	-	50	ns

Ratings and Characteristics Curves (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

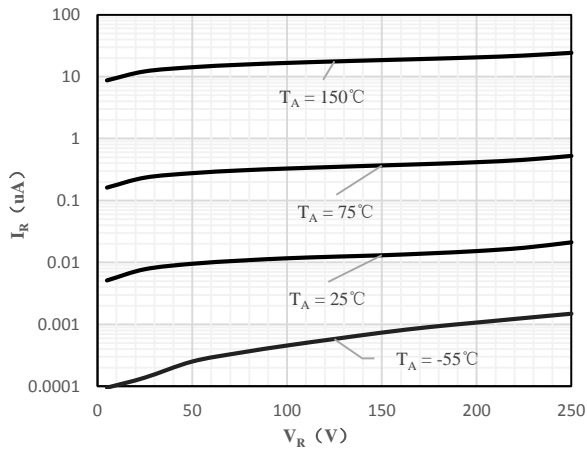


Fig 1 Typical Reverse Characteristic

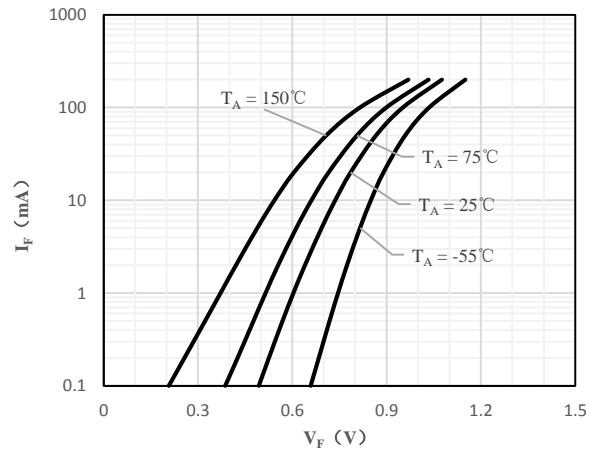


Fig 2 Typical Forward Characteristics

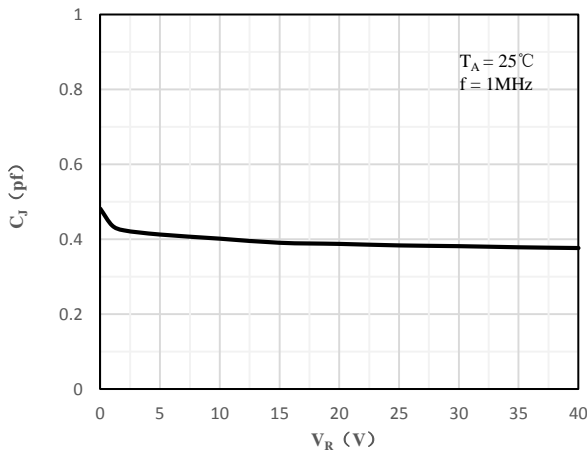
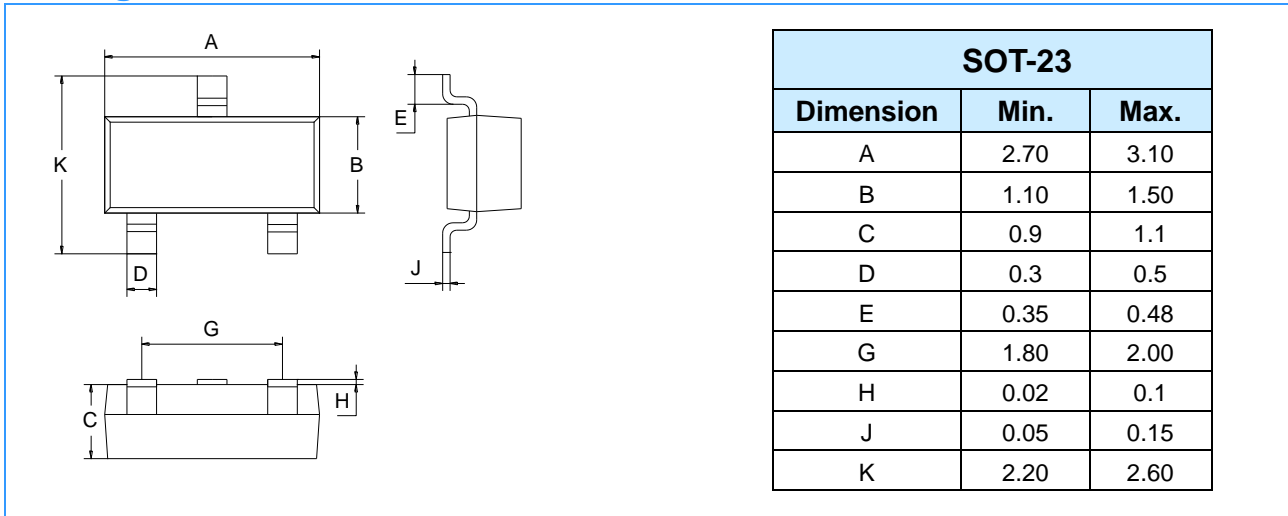
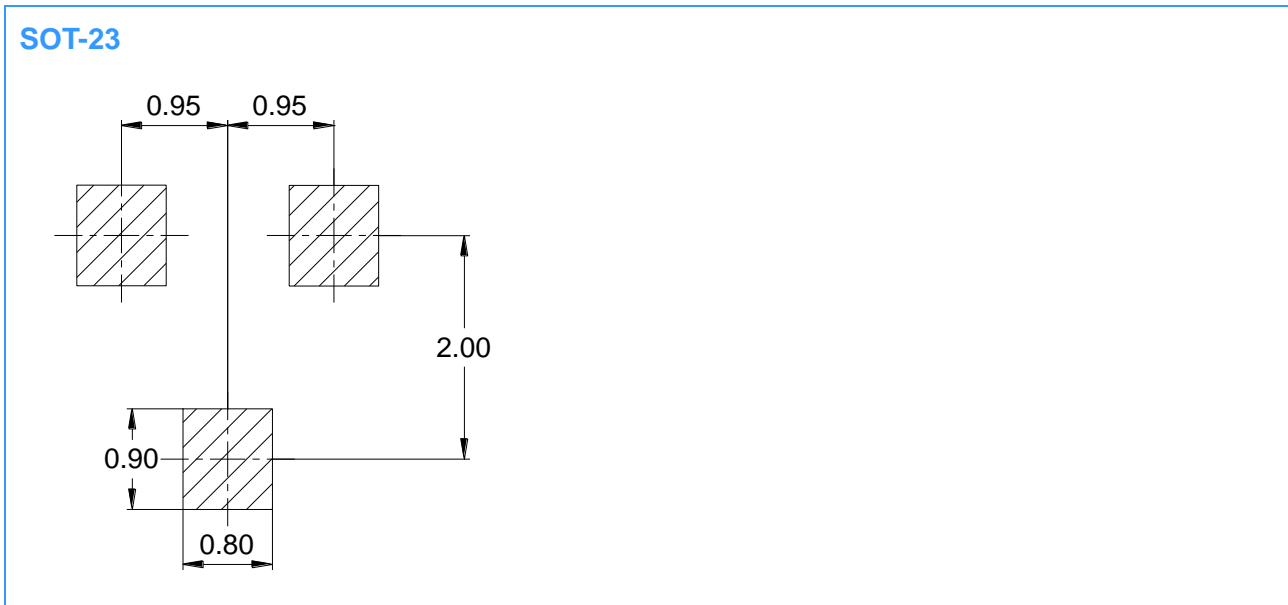


Fig 3 Capacitance vs. Reverse Voltage

Package Outline Dimensions (Unit: mm)



Package Outline Dimensions (Unit: mm)



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