

Features

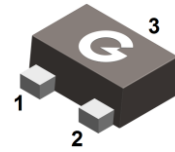
- Fast switching speed
- High conductance

HF

Mechanical Data

- Case: SOT-723
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208

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SOT-723

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
BAS21M	SOT-723	10000 pcs / Tape & Reel	JS

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
Average Rectified Output Current	I _O	200	mA
Repetitive Peak Forward Current	I _{FRM}	625	mA
Peak Forward Surge Current, 1μs Single Half-sine-wave	I _{FSM}	2.5	A
Peak Forward Surge Current, 1s Single Half-sine-wave	I _{FSM}	0.5	A

Thermal Characteristics

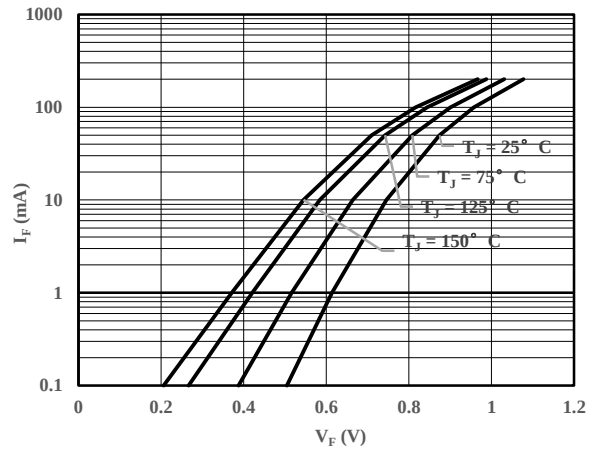
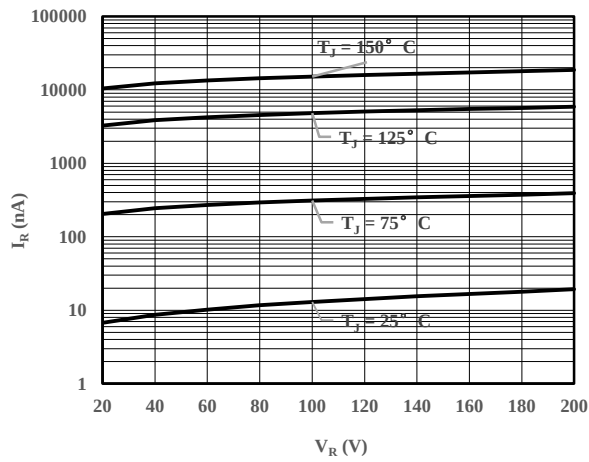
Parameter	Symbol	Value	Unit
Power Dissipation *1	P _D	265	mW
Thermal Resistance Junction-to-Air *1	R _{θJA}	470	°C/W
Operating Junction Temperature Range	T _J	-55 ~ +150	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

Note 1: FR-5 = 1.0 * 0.75 * 0.062 in.

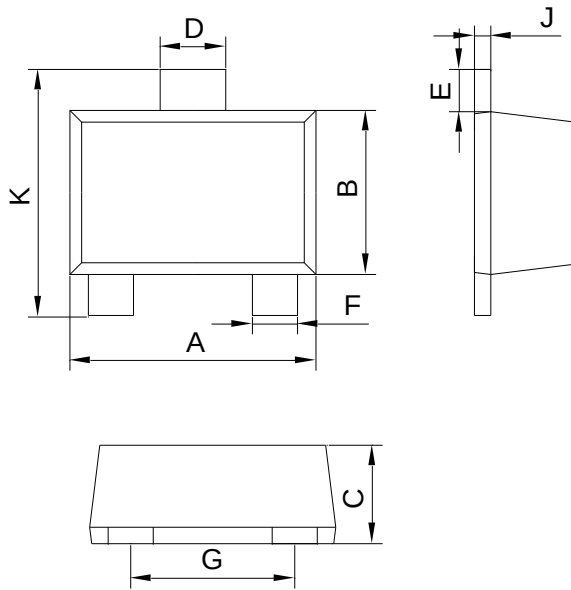
Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\mu\text{A}$	250	-	-	V
Forward Voltage	V_F	$I_F = 100\text{mA}$	-	-	1.00	V
		$I_F = 200\text{mA}$	-	-	1.25	V
Maximum Peak Reverse Current	I_R	$V_R = 200\text{V}$	-	-	100	nA
		$V_R = 200\text{V}, T_J = 100^\circ\text{C}$	-	-	15	μA
Total Capacitance	C_J	$V_R = 0\text{V}, f = 1.0\text{MHz}$	-	-	5	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 30\text{mA}$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$	-	-	50	ns

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



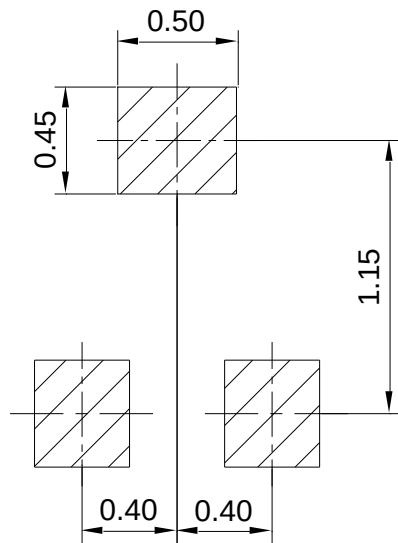
Package Outline Dimensions (Unit: mm)



SOT-723		
Dimension	Min.	Max.
A	1.10	1.30
B	0.70	0.90
C	0.40	0.54
D	0.22	0.42
E	0.10	0.30
F	0.12	0.32
G	0.70	0.90
J	0.08	0.15
K	1.10	1.30

Package Outline Dimensions (Unit: mm)

SOT-723



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