

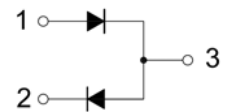
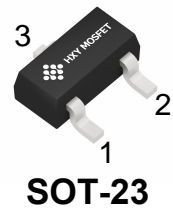


## Features

- Forward Current:  $I_F = 200\text{mA}$
- Power Dissipation of 225mW

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAS70-04FILM	SOT-23	A7	3000



## Maximum Ratings( $T_a = 25^\circ\text{C}$ unless otherwise noted)

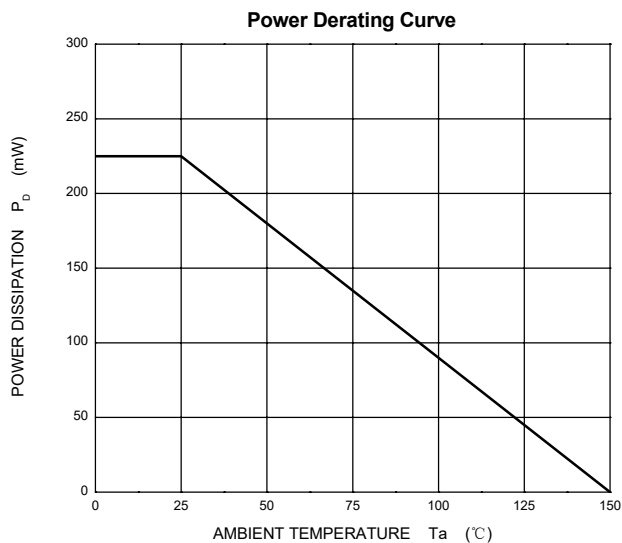
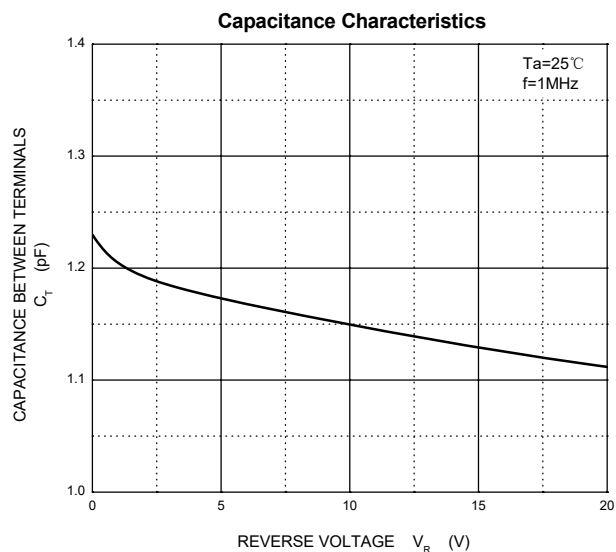
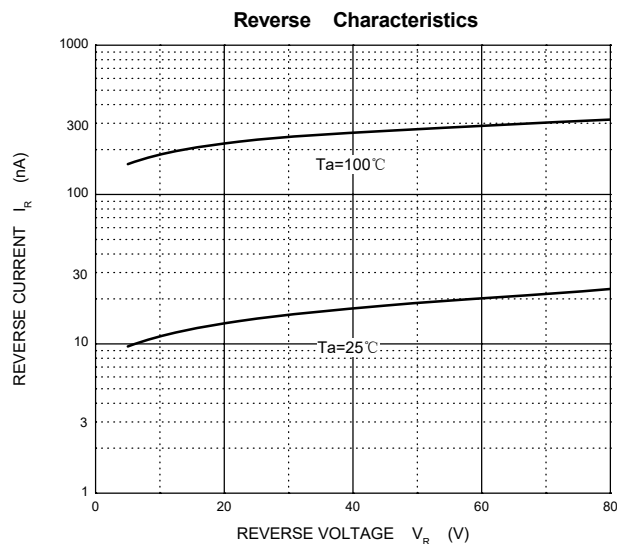
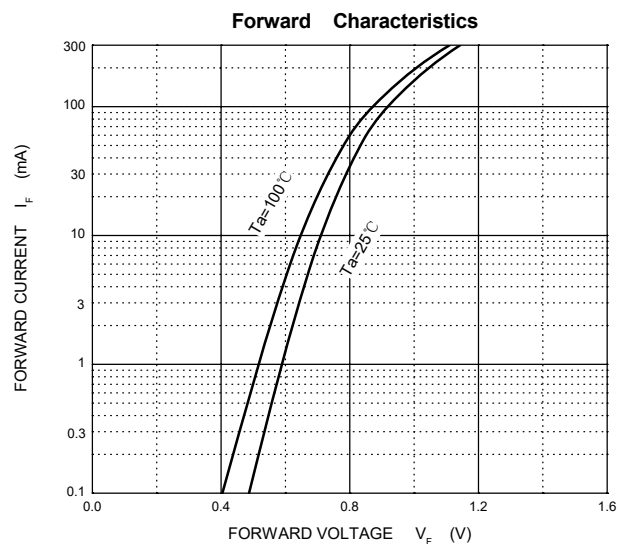
Parameter	Symbol	Limit	Unit
Reverse Voltage	$V_R$	70	V
Forward Current	$I_F$	200	mA
Non-Repetitive Peak Forward Surge Current @ $t = 8.3\text{ms}$	$I_{FSM}$	2.0	A
Power Dissipation	$P_D$	225	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	556	$^\circ\text{C/W}$
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature range	$T_{STG}$	-55~+150	$^\circ\text{C}$

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

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_R$	70			V	$I_R = 100\mu\text{A}$
Forward voltage	$V_{F1}$			0.715	V	$I_F = 1\text{mA}$
	$V_{F2}$			0.855	V	$I_F = 10\text{mA}$
	$V_{F3}$			1	V	$I_F = 50\text{mA}$
	$V_{F4}$			1.25	V	$I_F = 150\text{mA}$
Reverse current	$I_R$			2.5	$\mu\text{A}$	$V_R = 70\text{V}$
Capacitance between terminals	$C_T$			1.5	pF	$V_R = 0, f = 1\text{MHz}$
Reverse recovery time	$t_{rr}$			6	ns	$I_F = I_R = 10\text{mA}$ , $I_{rr} = 0.1 \times I_R$ , $R_L = 100\Omega$

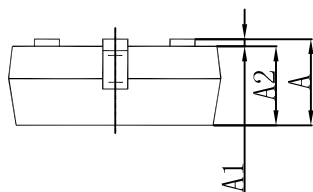
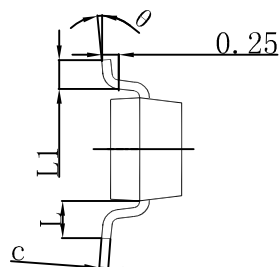
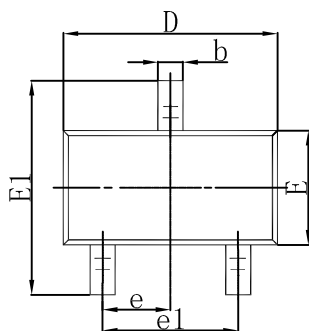


## Typical Characteristics

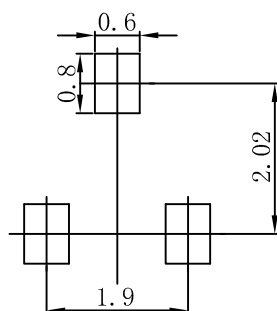




## SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°



### Note:

1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05\text{mm}$ .
3. The pad layout is for reference purposes only.



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