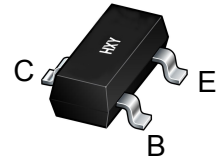




FEATURES

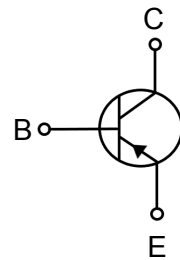
- Collector Current: $I_C=0.15A$
- Power Dissipation of 200mw



SOT-23

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
2SA1015	SOT-23	BA	3000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

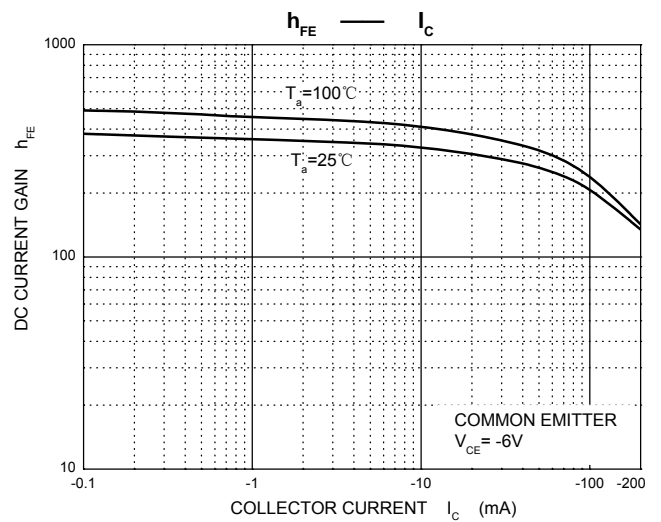
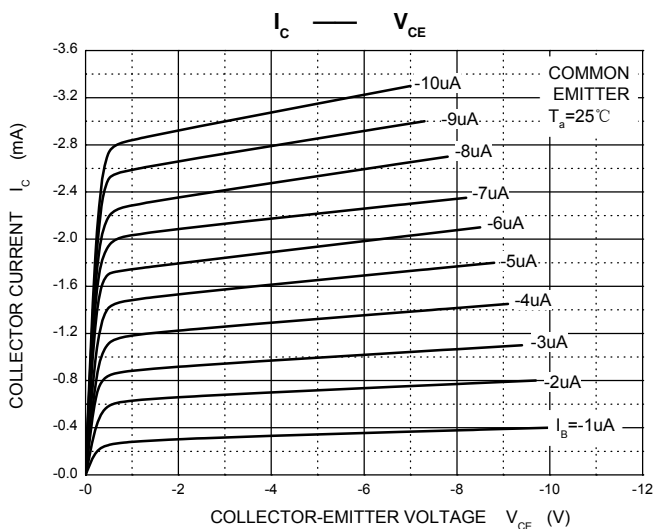
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V_{CBO}	-50	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-150	mA
Collector Power Dissipation	P_C	200	mW
Thermal Resistance From Junction To Ambient	R_{OJA}	625	$^{\circ}C/W$
Junction Temperature	T_J	150	$^{\circ}C$
Storage Temperature	T_{stg}	-55~+150	$^{\circ}C$

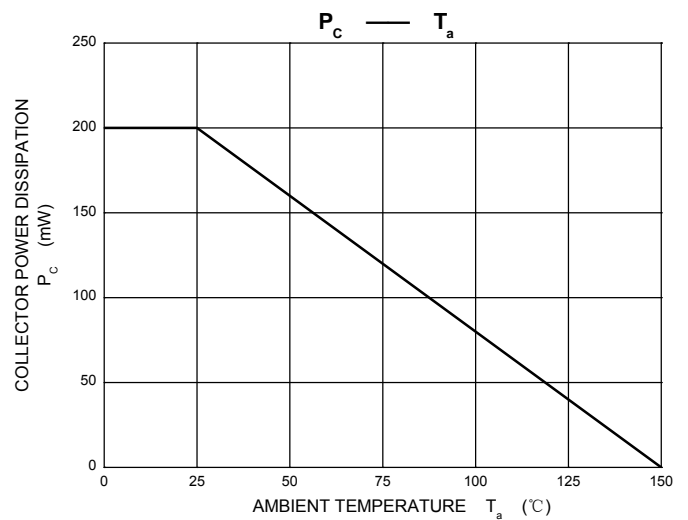
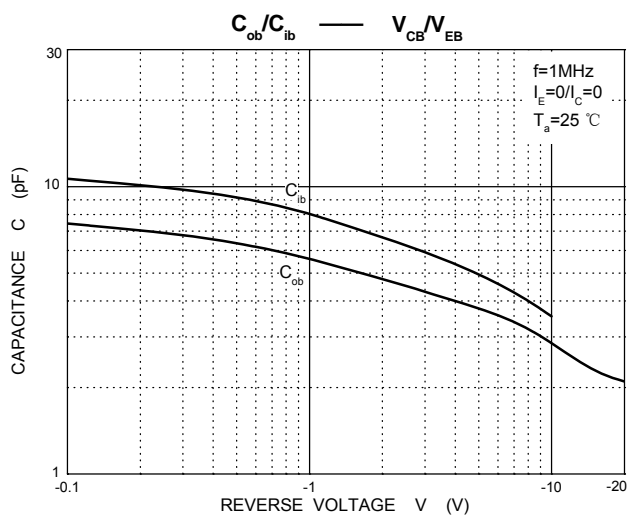
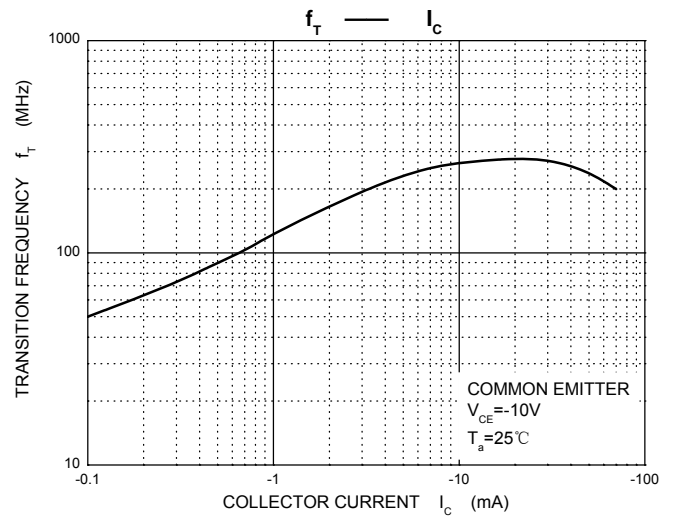
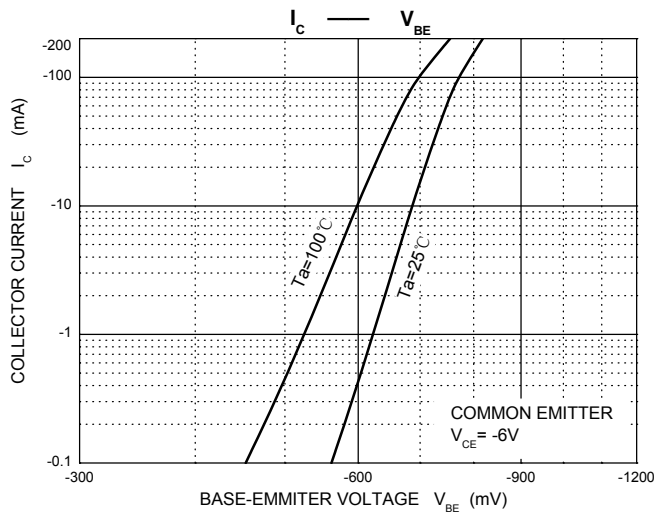
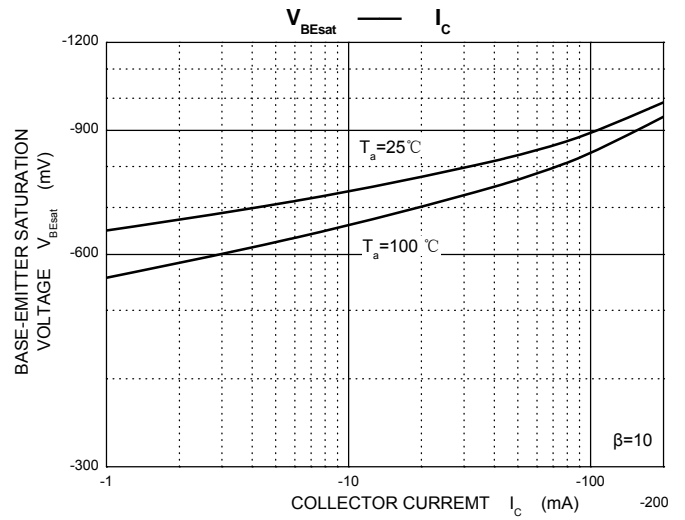
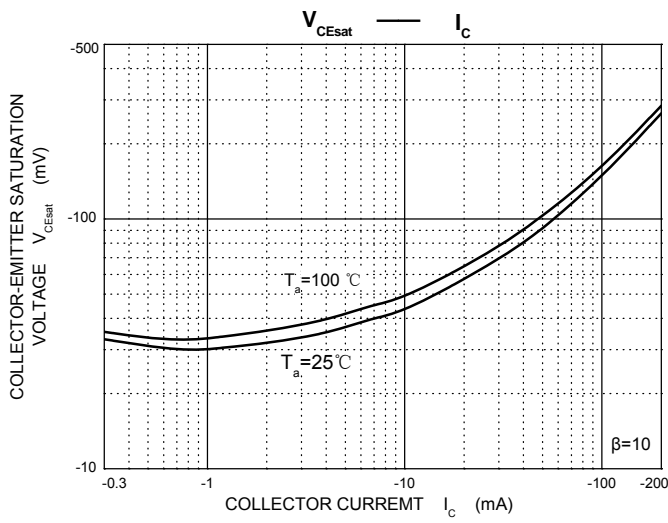


ELECTRICAL CHARACTERISTICS (T_a=25 unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100u A, I _E =0	-50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -0.1mA, I _B =0		-50		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -100 u A, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-50V, I _E =0			-0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} = -50V, I _B =0			-1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =- 5V, I _C =0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =-6V, I _C = -2mA	130		400	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100 mA, I _B = -10mA			-0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-100 mA, I _B = -10mA			-1.1	V
Transition frequency	f _T	V _{CE} =-10V, I _C = -1mA f=30MHz	80			MHz

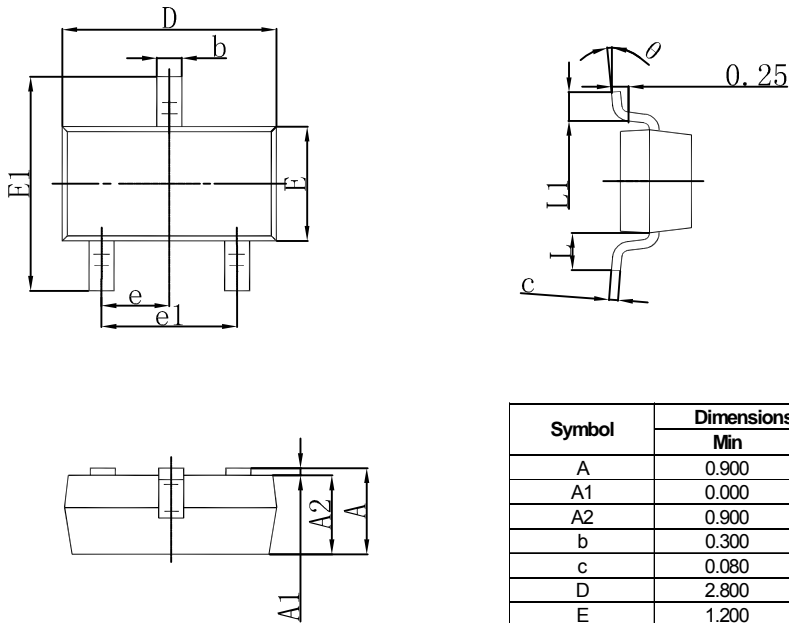
Typical Characteristics





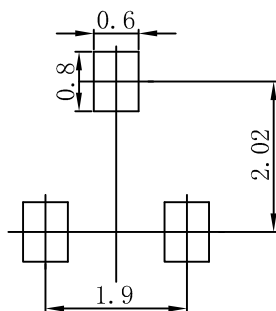


SOT-23 Package Outline Dimensions



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°

SOT-23 Suggested Pad Layout



- 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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