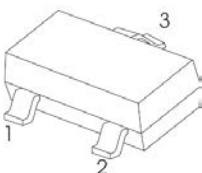
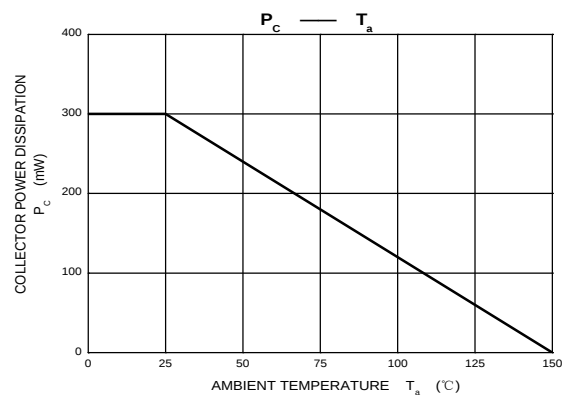
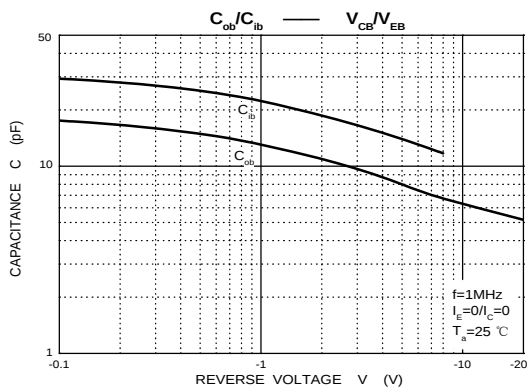
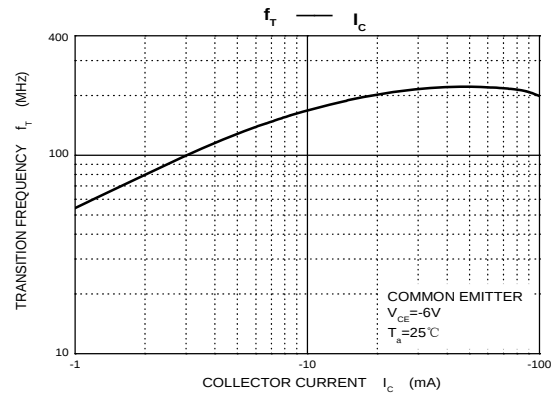
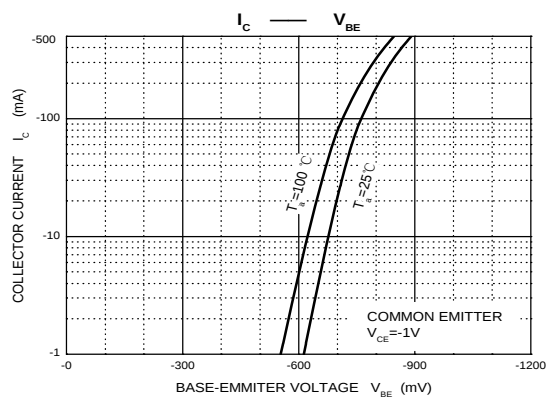
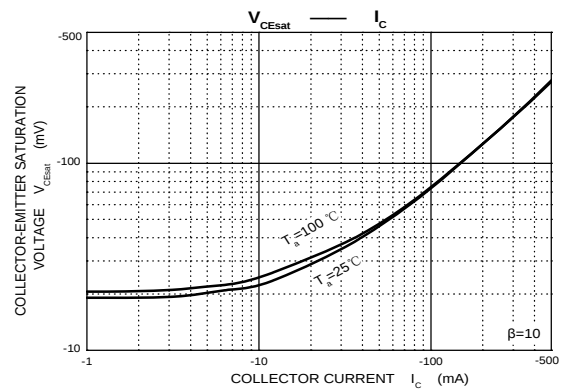
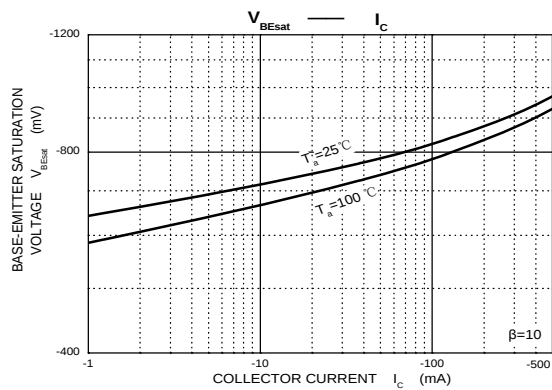
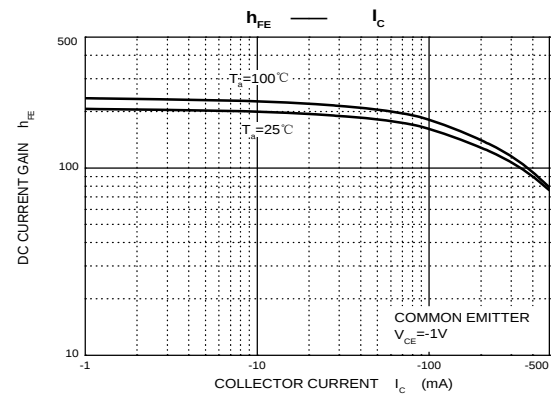
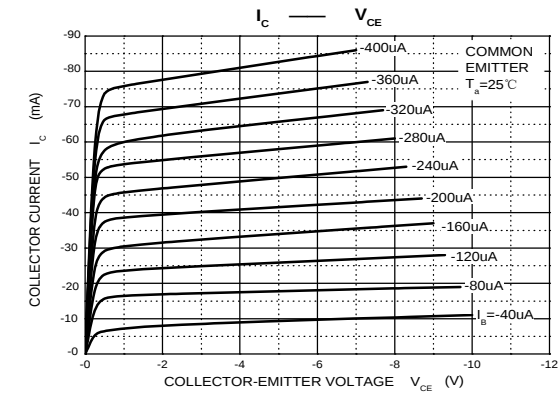
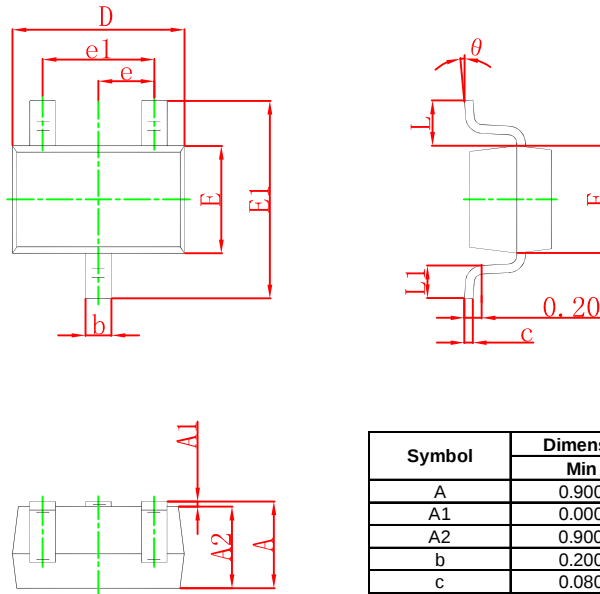


TRANSISTOR (PNP)		SOT-323 Plastic-Encapsulate Transistors			
SOT-323 1. BASE 2. EMITTER 3. COLLECTOR  Marking :2TY		Features - Complimentary to S8050W - Collector current: $I_C=0.5A$			
MAXIMUM RATINGS (T _a =25°C unless otherwise noted)					
Symbol	Parameter	Value	Unit		
V _{CBO}	Collector-Base Voltage	-40	V		
V _{CEO}	Collector-Emitter Voltage	-25	V		
V _{EBO}	Emitter-Base Voltage	-5	V		
I _C	Collector Current -Continuous	-0.5	A		
P _C	Collector Power Dissipation	0.2	W		
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150	°C		
ELECTRICAL CHARACTERISTICS (T _a =25°C unless otherwise specified)					
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100μA, I _E =0	-40		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA, I _B =0	-25		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -100μA, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} = -40V, I _E =0		-0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} = -20V, I _B =0		-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -3V, I _C =0		-0.1	μA
DC current gain	h _{FE(1)}	V _{CE} = -1V, I _C = -50mA	120	400	
	h _{FE(2)}	V _{CE} = -1V, I _C = -500mA	50		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500mA, I _B = -50mA		-0.6	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-500mA, I _B = -50mA		-1.2	V
Transition frequency	f _T	V _{CE} = -6V, I _C = -20mA f=30MHz	150		MHz

Typical Characteristics

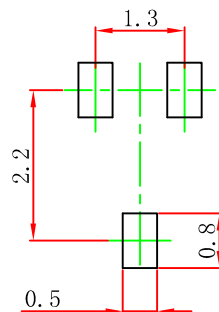


SOT-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

SOT-323 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.