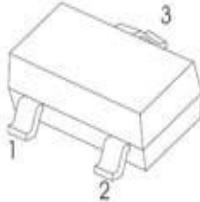
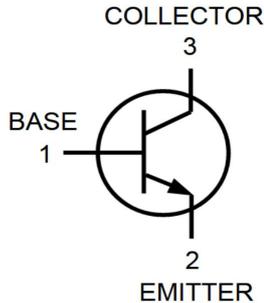
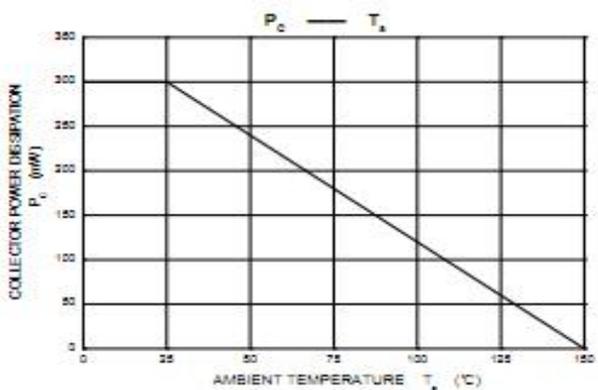
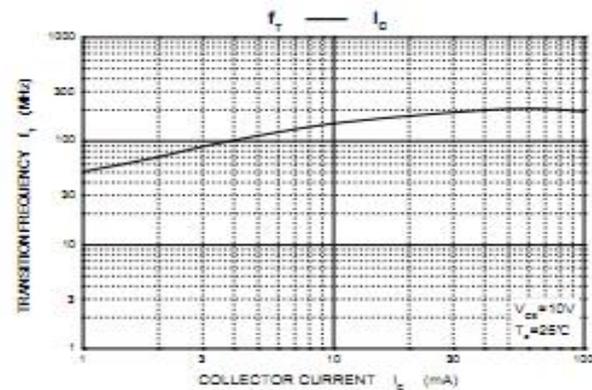
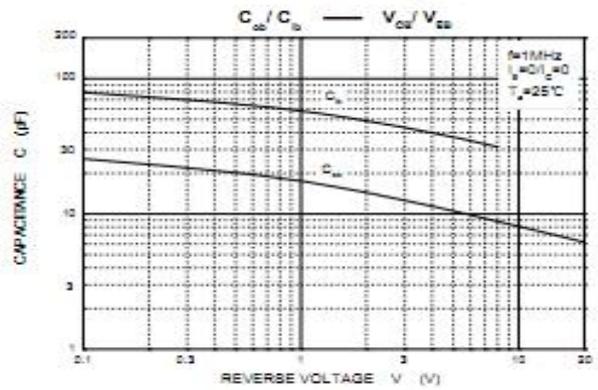
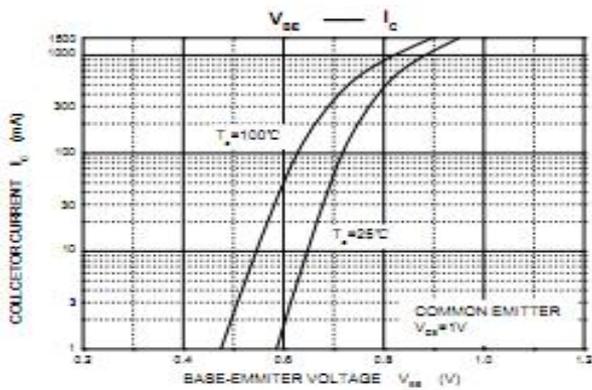
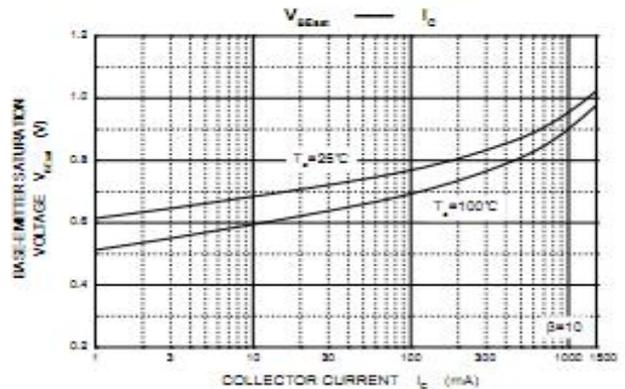
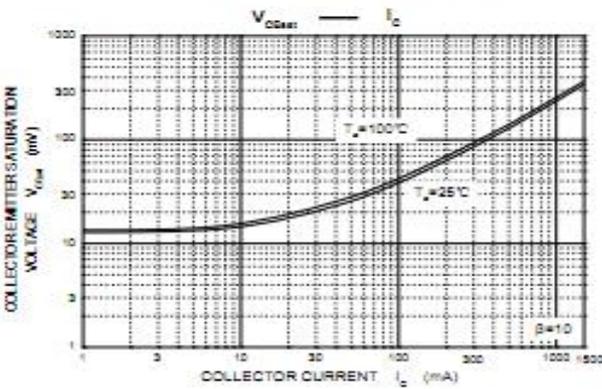
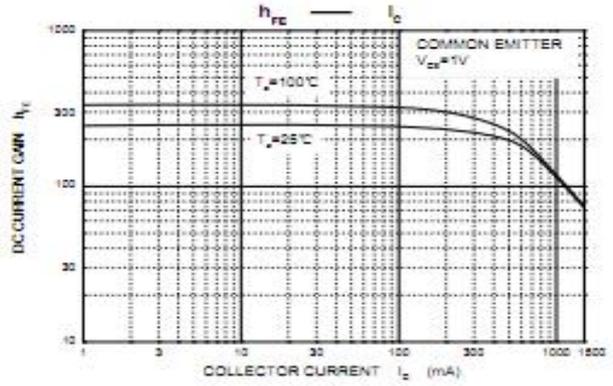
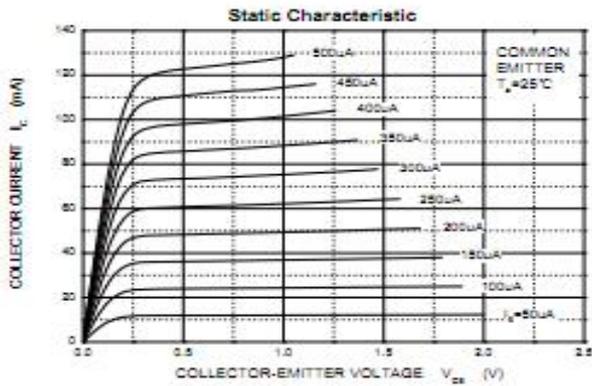


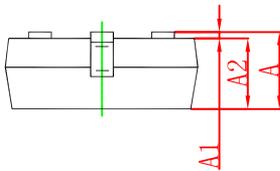
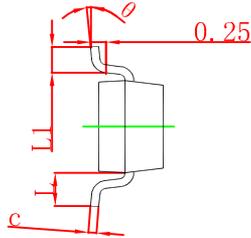
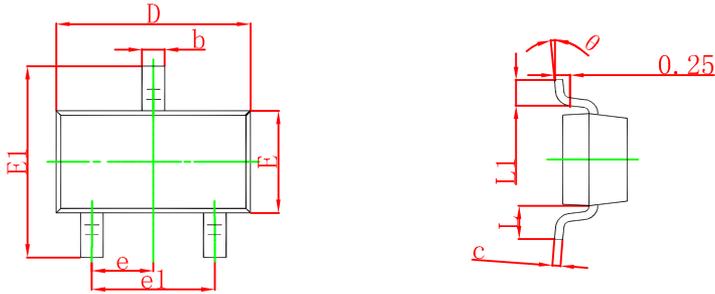
TRANSISTOR (NPN)		SOT-23 Plastic-Encapsulate Transistors	
<p><u>SOT-23</u></p>   <p>1.BASE 2.EMITTER 3.COLLECTOR</p> <p>Marking :Y1</p>		<p>Features</p> <ul style="list-style-type: none"> ※ Complementary to SS8550 ※ Collector Current: $I_c=1.5A$ 	
<p>MAXIMUM RATINGS (Ta=25°C unless otherwise noted)</p>			
Parameter	Symbol	Value	Unit
Collector-Base Voltage	VCBO	40	V
Collector-Emitter Voltage	VCEO	25	V
Emitter-Base Voltage	VEBO	5	V
Collector Current	IC	1500	mA
Collector Power Dissipation	PC	300	mW
Thermal Resistance From Junction To Ambient	RθJA	417	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)						
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC= 100μA, IE=0	40	100		V
Collector-emitter breakdown voltage	V(BR)CEO	IC= 1mA, IB=0	25	41		V
Emitter-base breakdown voltage	V(BR)EBO	IE=100μA, IC=0	5	8.6		V
Collector cut-off current	ICBO	VCB=40 V , IE=0			0.1	μA
Collector cut-off current	ICEO	VCE=25V , IB=0			0.1	μA
Emitter cut-off current	IEBO	VEB= 5V , IC=0			0.1	μA
DC current gain	hFE	VCE=1V, IC= 50mA	120		400	
	hFE	VCE=1V, IC= 500mA	40			
Collector-emitter saturation voltage	VCE(sat)	IC=500 mA, IB= 50mA			0.6	V
Base-emitter saturation voltage	VBE(sat)	IC=500 mA, IB= 50mA			1.2	V
Transition frequency	fT	VCE=6V, IC= 20mA f=30MHz	150			MHz
CLASSIFICATION OF hFI						
Rank	H					
Range	200-350					

TYPICAL ELECTRICAL AND THERMAL CHARACTERISTICS

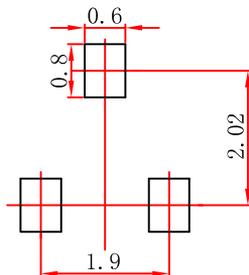


SOT-23 Package Outline Dimensions



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.