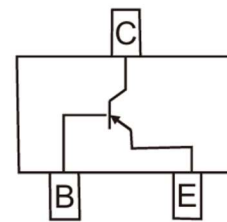
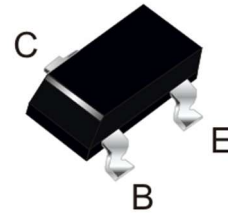


Features

- Low profile package
- Ideal for automated placement
- Complementary to SS8050
- Power Dissipation of 300mW
- High Stability and High Reliability

Appearance & Symbol

SOT-23



Mechanical Data

- Package: SOT-23
- UL Flammability Classification Rating 94V-0
- Terminals: Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any

Application

- Amplifying signal
- Electronic switch
- Oscillating circuit
- Variable resistance

Order Information

Part Number	Package	Marking	Quantity
SS8550	SOT-23	Y2	3000

Absolute Maximum Ratings (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-40	V
Collector-Emitter Voltage	V _{CEO}	-25	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current Continuous	I _C	-1500	mA
Power Dissipation	P _D	300	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	417	°C/W
Junction Temperature	T _J	-55 to +150	°C
Junction and Storage Temperature	T _{STG}	-55 to +150	°C

Electrical Characteristics (T_A = 25°C unless otherwise noted)

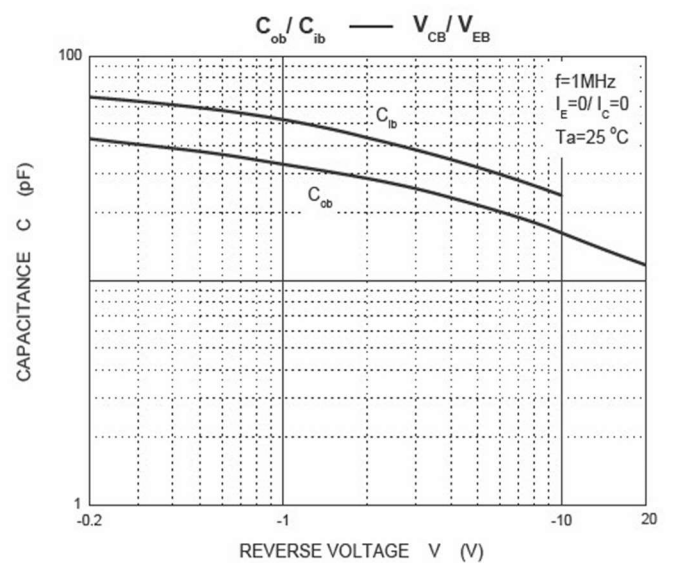
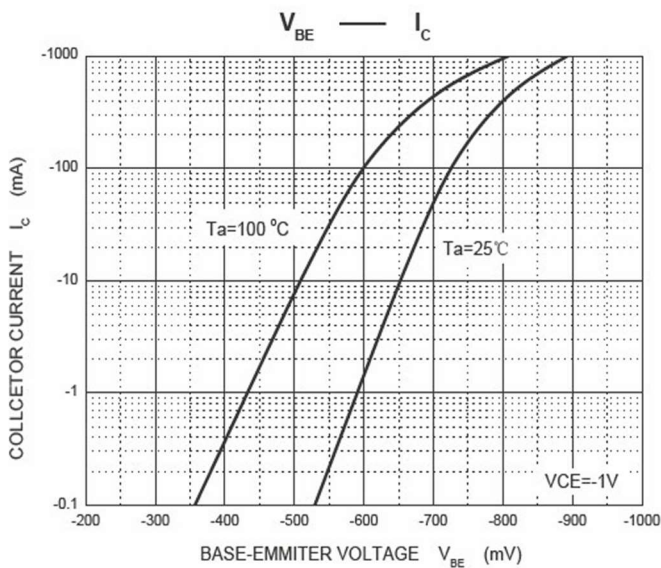
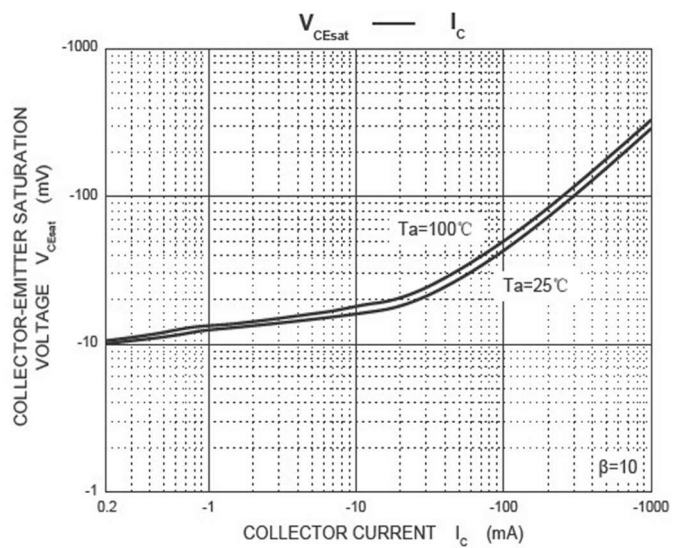
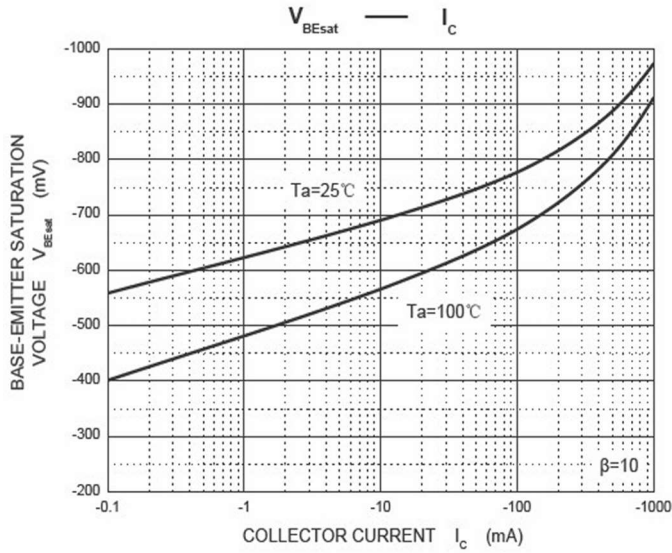
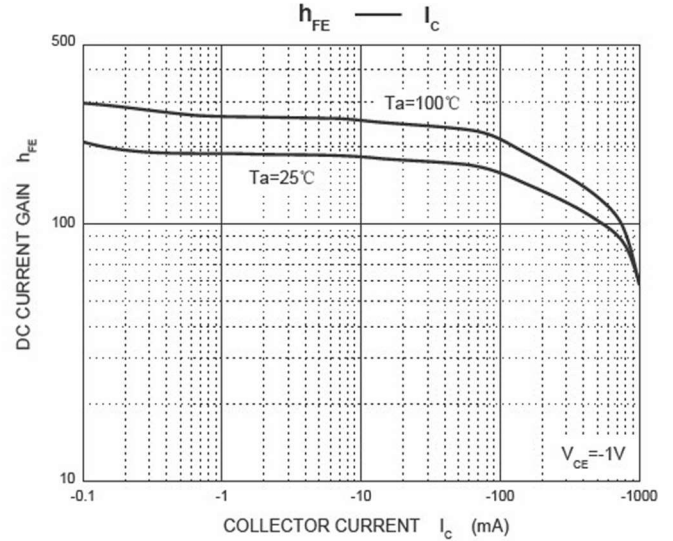
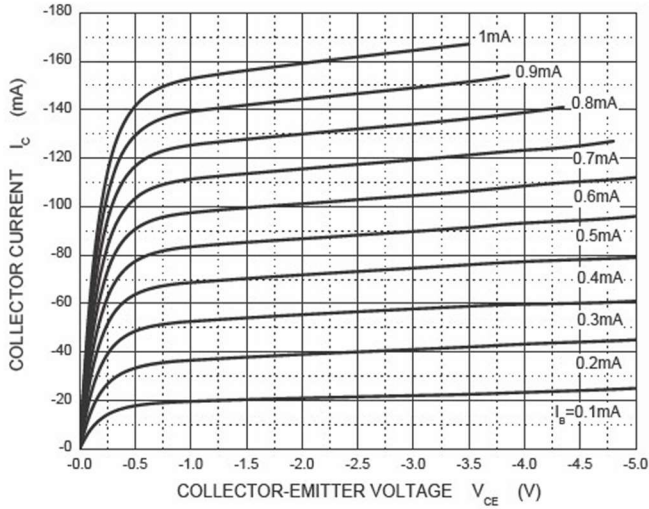
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100uA, I _E =0	-40		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-0.1mA, I _B =0	-25		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100uA, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} =-40V, I _E =0		-100	nA
Collector cut-off current	I _{CEO}	V _{CB} =-20V, I _B =0		-100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0		-100	nA
DC current gain	h _{FE(1)}	V _{CE} =-1V, I _C =-100mA	120	400	
	h _{FE(2)}	V _{CE} =-1V, I _C =-800mA	40		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-800mA, I _B =-80mA		-0.5	V
Base -emitter saturation voltage	V _{BE(sat)}	I _C =-800mA, I _B =-80mA		-1.2	V
Transition frequency	f _T	V _{CE} =-10V, I _C =-50mA, f=30MHz	100		MHz
Output capacitance	C _{obo}	V _{CB} =-10V, f=1MHz, I _E =0		20	pF

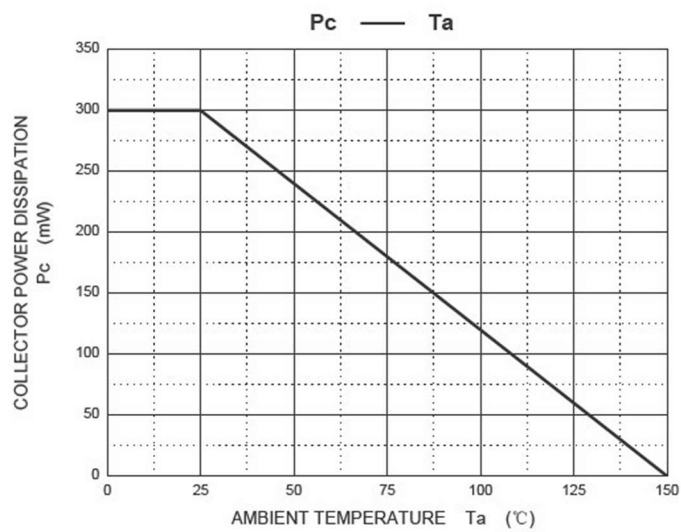
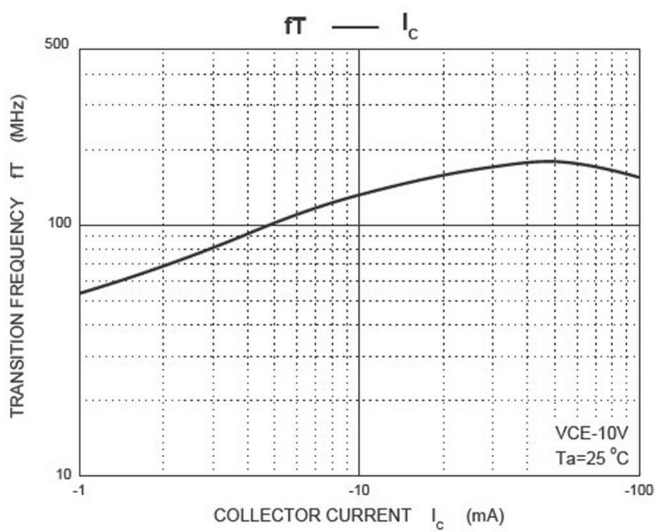
Classification of h_{FE(1)}

Rank	L	H	J
Range	120 - 200	200 - 350	300 - 400

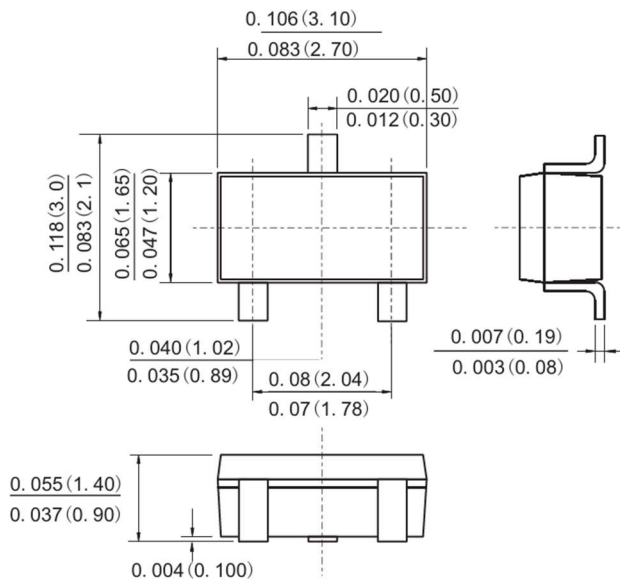
Typical Characteristics

Static Characteristic





Package Outline Dimensions (Units: mm) SOT-23



Suggested pad layout

