

SOT-23 Plastic-Encapsulate Transistors

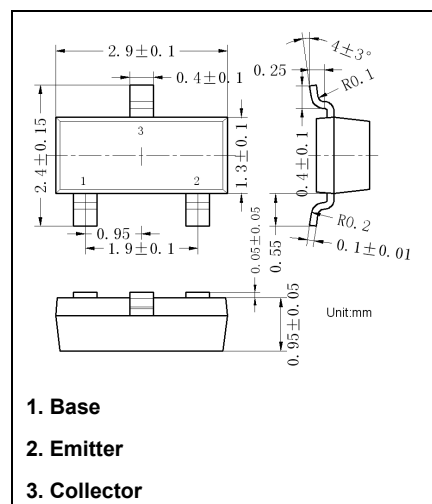
SS8550

PNP Transistors

Features

- Complimentary to SS8050
- High Collector Current

Marking: Y2



Maximum Ratings (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector Base Voltage	-40	V
V _{CEO}	Collector Emitter Voltage	-25	V
V _{EBO}	Emitter Base Voltage	-5	V
I _c	Collector Current	-1.5	A
P _c	Collector Power Dissipation	300	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	417	°C/W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55 ~ +150	°C

Electrical Characteristics (T_a=25°C unless otherwise specified)

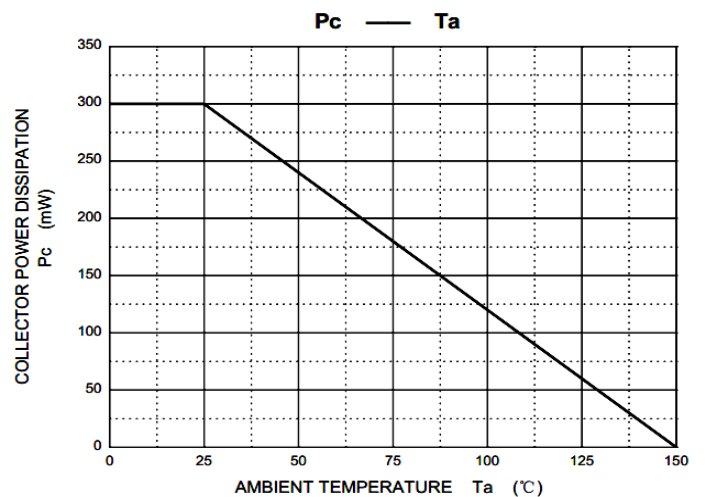
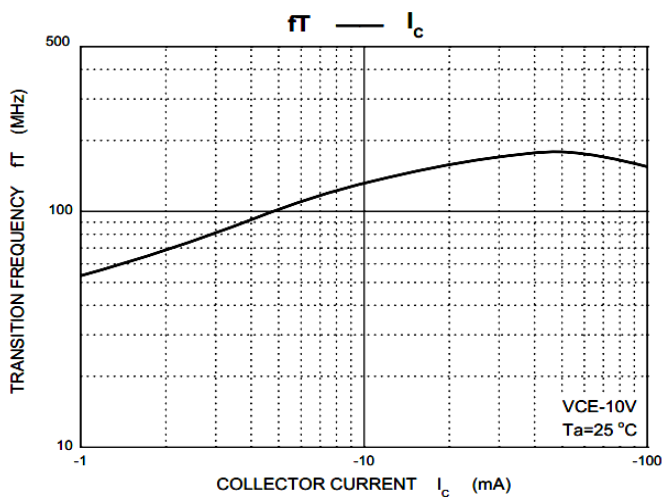
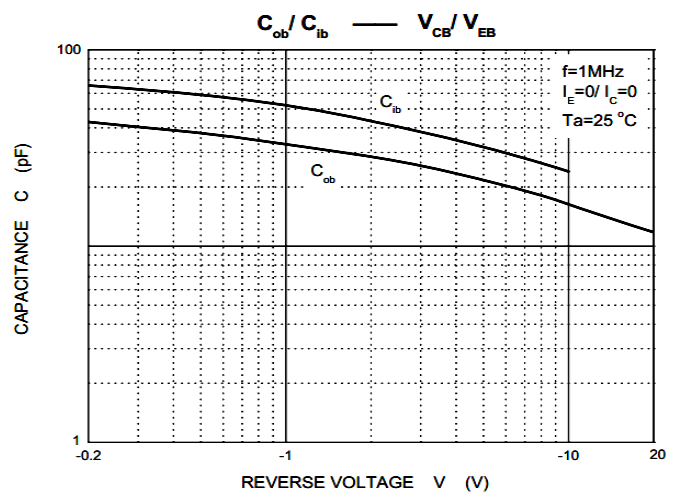
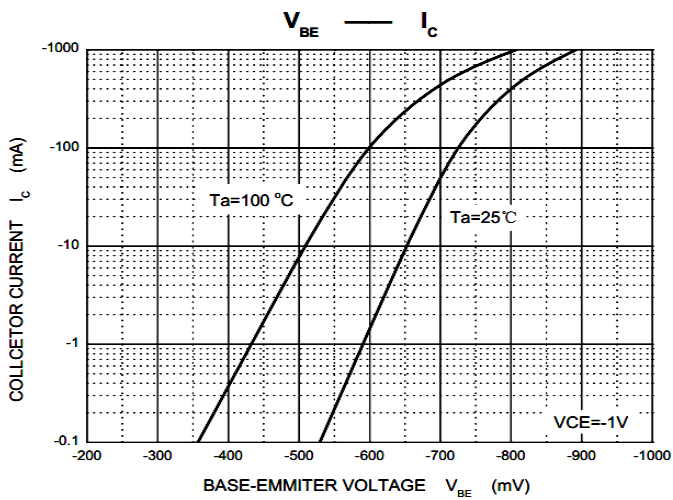
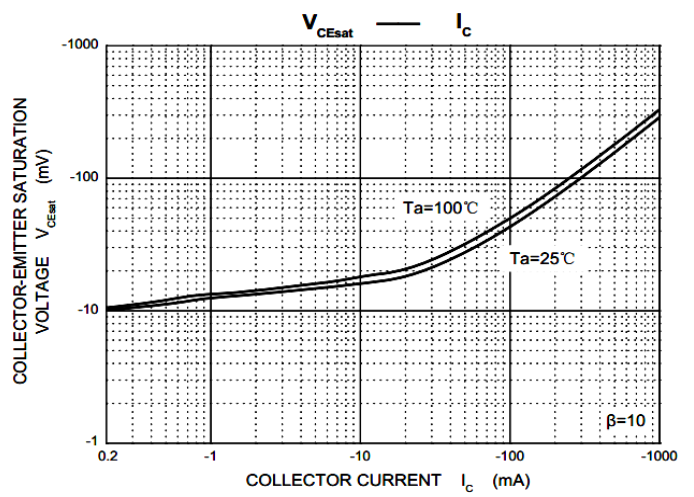
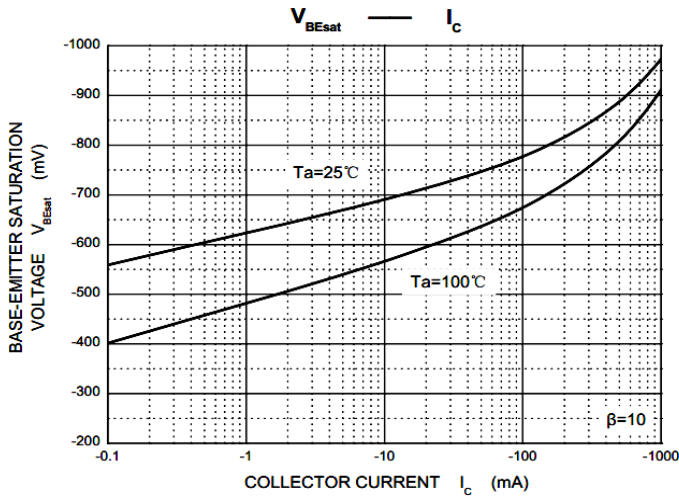
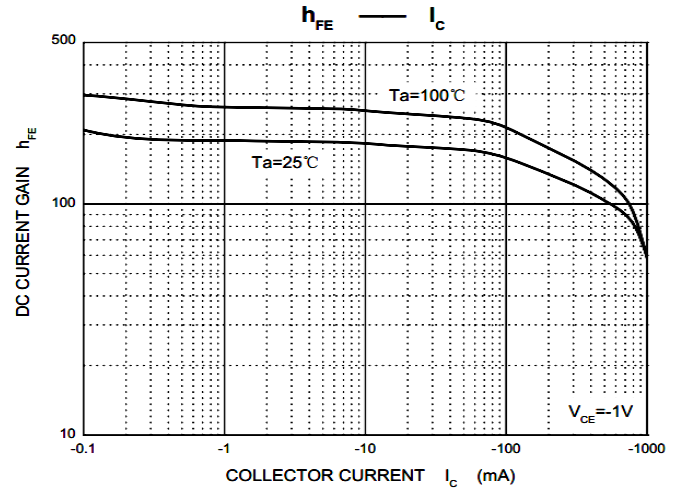
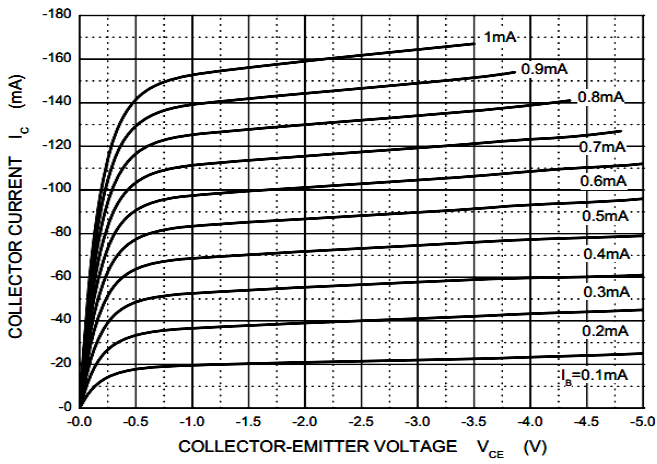
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _{(BR)CB0}	Collector-base breakdown voltage	I _c = -100μA, I _E = 0	-40			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _c = -0.1mA, I _B = 0	-25			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E = -100μA, I _c = 0	-5			V
I _{CB0}	Collector cut-off current	V _{CB} = -40V, I _E = 0			-100	nA
I _{CEO}	Collector cut-off current	V _{CE} = -20V, I _B = 0			-100	nA
I _{EBO}	Emitter cut-off current	V _{EB} = -5V, I _c = 0			-100	nA
h _{FE(1)}	DC current gain	V _{CE} = -5V, I _c = -1mA	120			
h _{FE(2)}		V _{CE} = -1V, I _c = -100mA	200		400	
h _{FE(3)}		V _{CE} = -1V, I _c = -800mA	40			
V _{CE(sat)}	Collector-emitter saturation voltage	I _c = -800mA, I _B = -80mA			-0.5	V
V _{BE(sat)}	Base-emitter saturation voltage	I _c = -800mA, I _B = -80mA			-1.2	V
V _{BE}	Base-emitter voltage	V _{CE} = -1V, I _c = -10mA			-1	V
f _T	Transition frequency	V _{CE} = -10V, I _c = -50mA, f = 30MHz	100			MHz
C _{ob}	Collector output capacitance	V _{CB} = -10V, I _E = 0, f = 1MHz			20	pF

Classification OF h_{FE(1)}

Rank	L	H
Range	200-350	350-400

Typical Characteristics

Static Characteristic



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