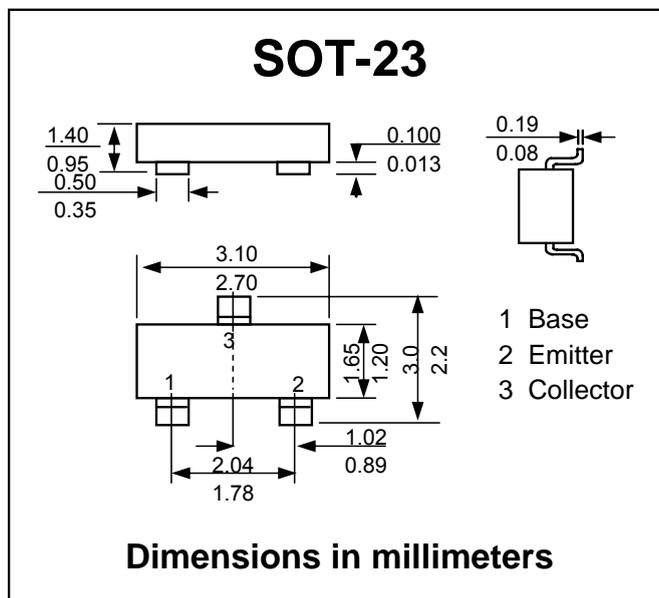


## PNP Transistors

### SS8550

#### FEATURES

- High Collector Current
- Complementary to SS8050



#### MAXIMUM RATINGS (Ta=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	$I_C$	-1.5	A
Collector Dissipation	$P_C$	200	mW
Thermal Resistance From Junction To Ambient	$R_{thJA}$	625	°C/W
Operation Junction and Storage Temperature Range	$T_J, T_{stg}$	-55~+150	°C

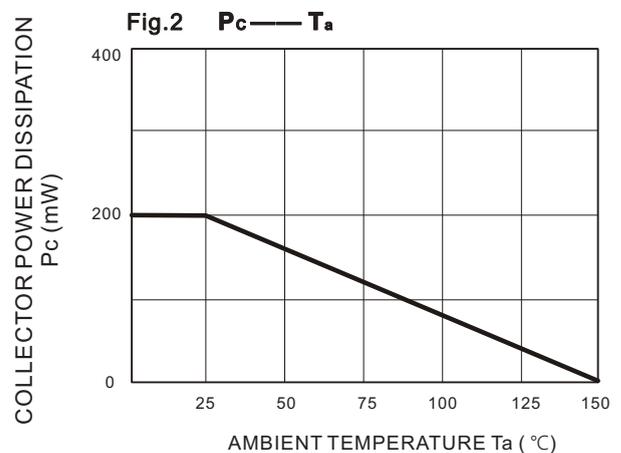
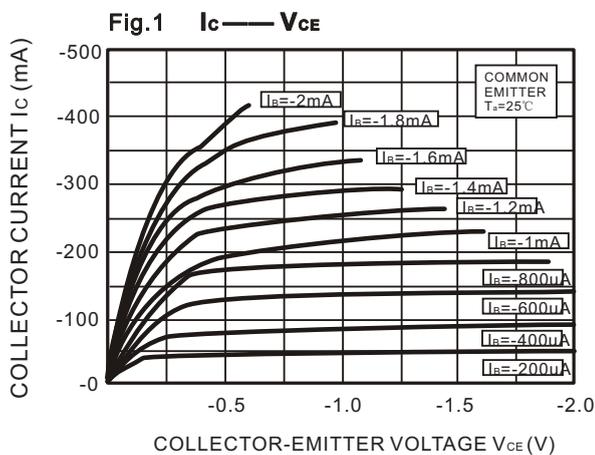
## CLASSIFICATION OF $h_{FE(1)}$

RANK	L	H	J
RANGE	120-200	200-350	300-400
MARKING	Y2		

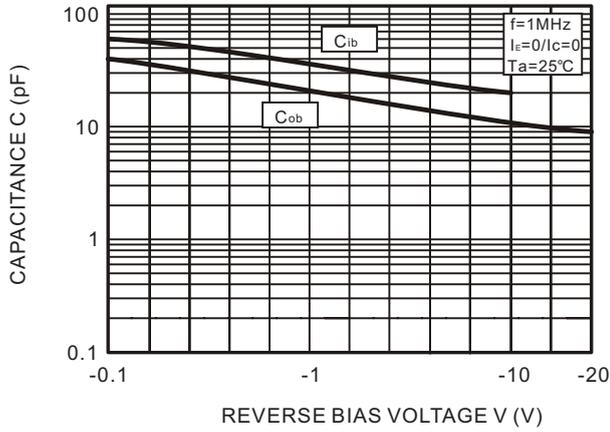
## ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted.)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu A, I_E = 0$	-40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -0.1\text{ mA}, I_B = 0$	-25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100\mu A, I_C = 0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = -40V, I_E = 0$			-0.1	$\mu A$
Collector cut-off current	$I_{CEO}$	$V_{CE} = -20V, I_B = 0$			-0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$			-0.1	$\mu A$
DC current gain	$h_{FE1}$	$V_{CE} = -1V, I_C = -100\text{ mA}$	120		400	
	$h_{FE2}$	$V_{CE} = -1V, I_C = -800\text{ mA}$	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -800\text{ mA}, I_B = -80\text{ mA}$			-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -800\text{ mA}, I_B = -80\text{ mA}$			-1.2	V
Base-emitter voltage	$V_{BE}$	$V_{BE} = -1V, I_C = -10\text{ mA}$			-1	V
Transition frequency	$f_T$	$V_{CE} = -10V, I_C = -50\text{ mA}, f = 30\text{ MHz}$	100			MHz
Collector output capacitance	$C_{ob}$	$V_{CB} = -10V, I_E = 0, f = 1\text{ MHz}$			20	

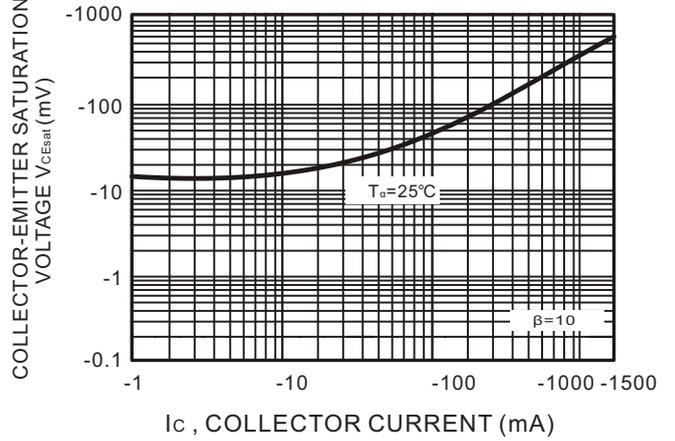
## RATING AND CHARACTERISTIC CURVES (SS8550)



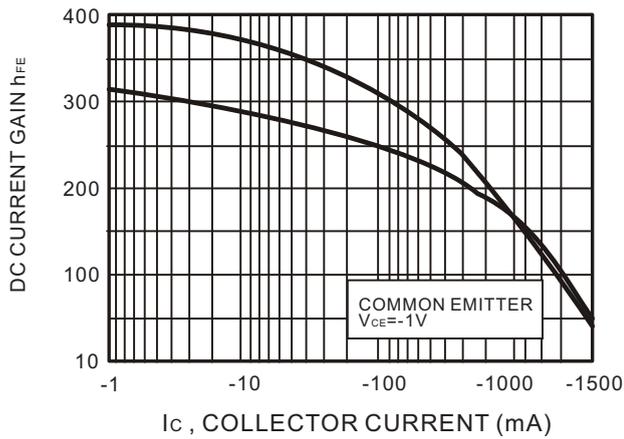
**Fig.3**  $C_{ob}/C_{ib}$  —  $V_{CB}/V_{EB}$



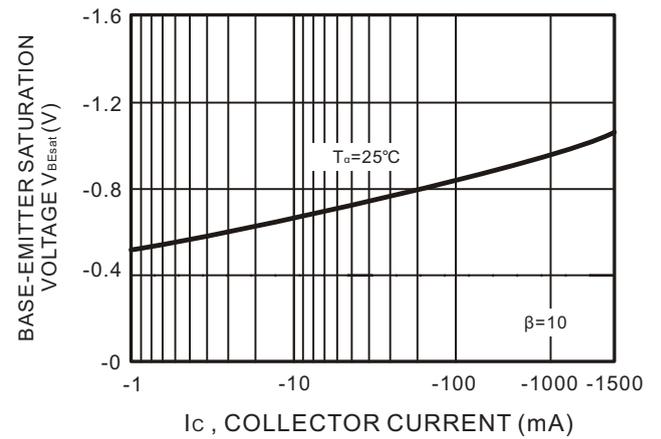
**Fig.4**  $V_{CEsat}$  —  $I_c$



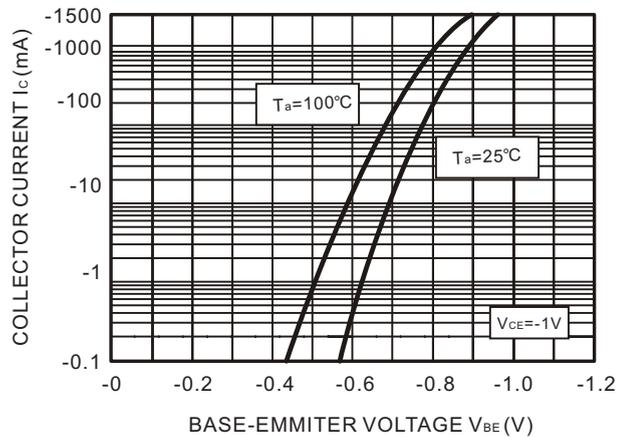
**Fig.5**  $h_{FE}$  —  $I_c$



**Fig.6**  $V_{BEsat}$  —  $I_c$



**Fig.7**  $I_c$  —  $V_{BE}$



**Fig.8**  $f_T$  —  $I_c$

