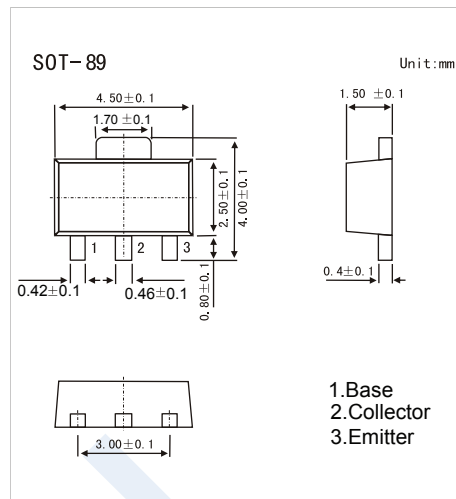


PNP Transistors

H8550

■ Features

- Collector Power Dissipation: $P_c=0.5W$
- Collector Current: $I_c=-1.5A$

■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-40	V
Collector-emitter voltage	V_{CEO}	-25	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_c	-1.5	A
Collector power dissipation	P_c	0.5	W
Junction temperature	T_j	150	$^\circ C$
Storage temperature	T_{stg}	-55 to +150	$^\circ C$

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_c = -100 \mu A, I_E = 0$	-40			V
Collector-emitter breakdown voltage	V_{CEO}	$I_c = -0.1mA, I_B = 0$	-25			V
Emitter-base breakdown voltage	V_{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	μA
Collector cut-off current	I_{CEO}	$V_{CE} = -20V, I_B = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5V, I_C = 0$			-0.1	μA
DC current gain	h_{FE}	$V_{CE} = -1V, I_c = -100mA$	85		400	
		$V_{CE} = -1V, I_c = -800mA$	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
Base-emitter on voltage	$V_{BE(on)}$	$I_c = -1V, V_{CE} = -10mA$			-1	V
Base-emitter positive forward voltage	V_{BEF}	$I_B = -1A$			-1.55	V
output capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$			20	pF
Transition frequency	f_T	$V_{CE} = -10V, I_c = -50mA$	100			MHz

■ Classification of $h_{FE}(1)$

Marking	8550*			
Range	B	C	D	D3
h_{FE}	85~160	120~200	160~300	300~400

PNP Transistors

H8550

■ Typical Characteristics

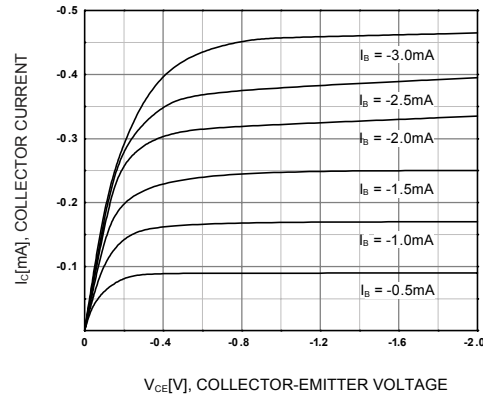


Figure 1. Static Characteristic

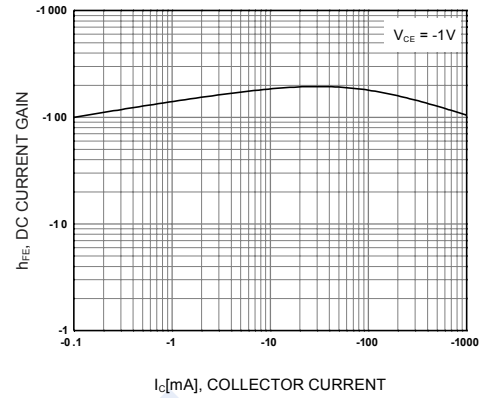


Figure 2. DC current Gain

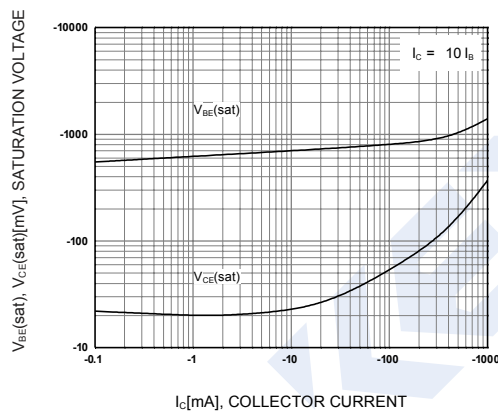
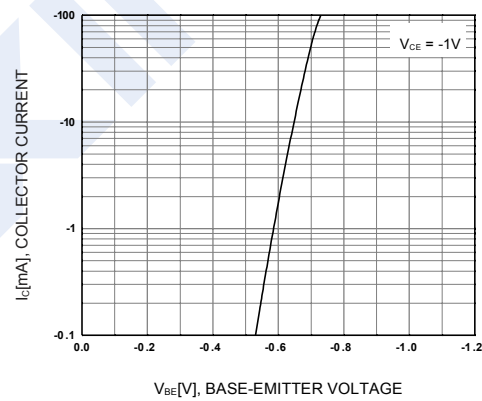
Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

Figure 4. Base-Emitter On Voltage

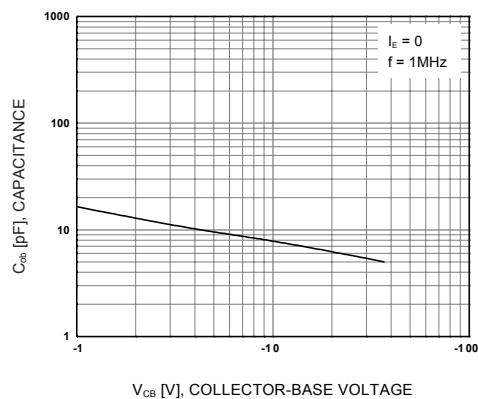


Figure 5. Collector Output Capacitance

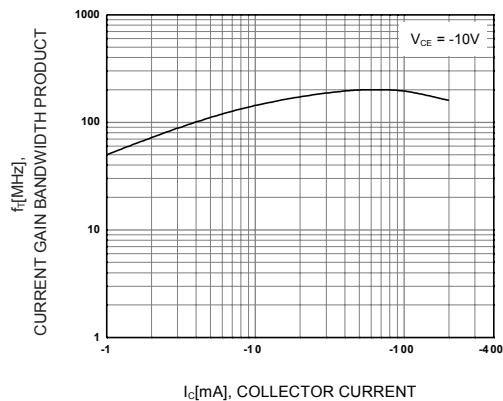


Figure 6. Current Gain Bandwidth Product