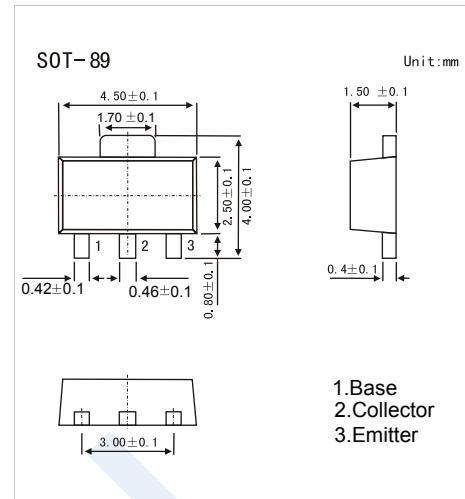


NPN Transistors**H8050****■ Features**

- Collector Power Dissipation: $P_c=1W$
- Collector Current: $I_c=1.5A$
- Complementary to H8550

■ 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	1	W
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

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

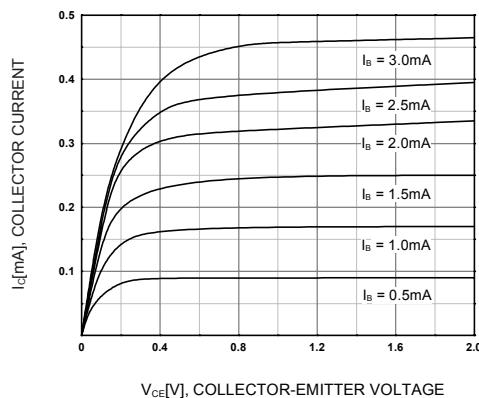
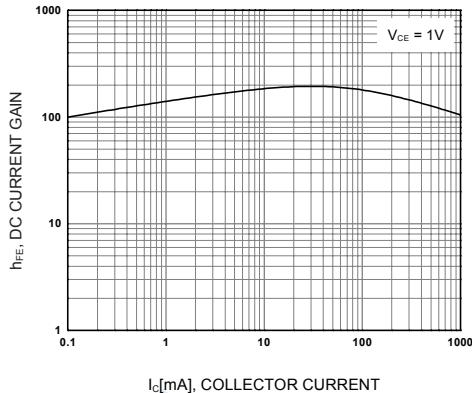
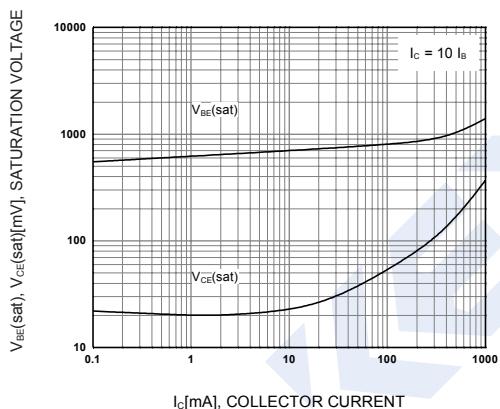
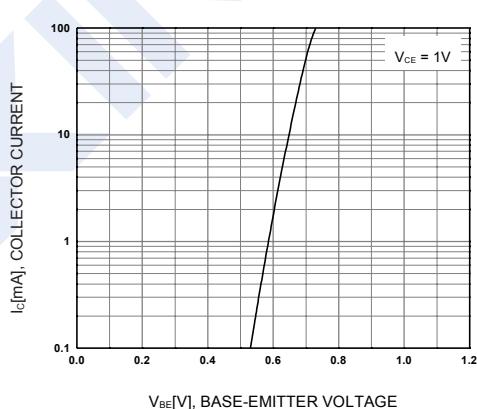
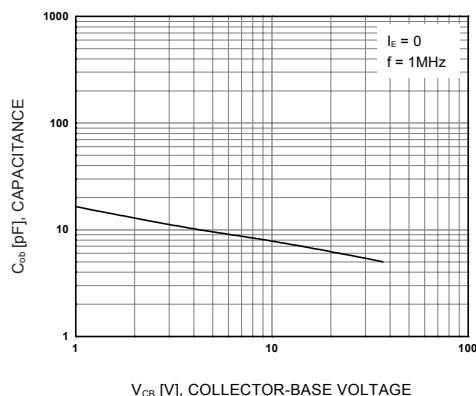
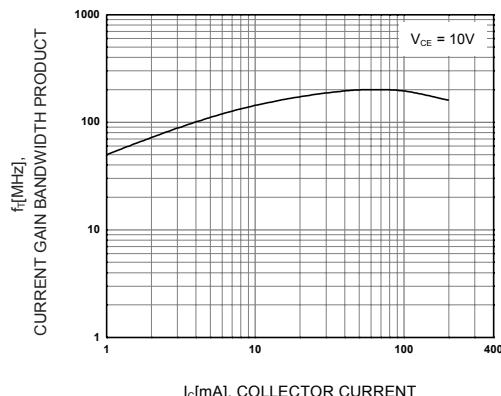
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_C = 100 \mu A, I_E = 0$	40			V
Collector-emitter breakdown voltage	V_{CEO}	$I_C = 0.1mA, I_B = 0$	25			V
Emitter-base breakdown voltage	V_{EBO}	$I_E = 100 \mu A, I_C = 0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB} = 40 V, I_E = 0$			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 favor voltage	V_{BEF}	$I_B = 1A$			1.55	V
output capacitance	C_{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$			15	pF
Transition frequency	f_T	$V_{CE} = 10V, I_C = 50mA$	100			MHz

■ Classification of $h_{FE(1)}$

Type	H8050-B	H8050-C	H8050-D	H8050-D3
Range	85-160	120-200	160-300	300-400
Marking	8050B	8050C	8050D	8050D3

H8050

■ 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**

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