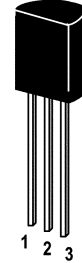


**FUKUCOM COMPANY LTD.****福 靈 有 限 公 司**FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
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TEL: 852-2790 0314 FAX: 852-2790 0206

BC560**PNP Silicon Low Noise Transistor**On special request, these transistors can be
manufactured in different pin configurations.

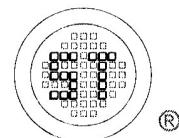
1. Collector 2. Base 3. Emitter

TO-92 Plastic Package
Weight approx. 0.19g**Absolute Maximum Ratings (T_a = 25 °C)**

Parameter	Symbol	Value	Unit
Collector Emitter Voltage	-V _{CEO}	45	V
Collector Base Voltage	-V _{CBO}	50	V
Emitter Base Voltage	-V _{EBO}	5	V
Collector Current	-I _C	100	mA
Total Power Dissipation	P _{tot}	625	mW
Operating and Storage Junction Temperature Range	T _J , T _S	- 55 to + 150	°C

Characteristics (T_a = 25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at -V _{CE} = 5 V, -I _C = 2 mA	BC560A h _{FE}	110	-	220	-
	BC560B h _{FE}	200	-	450	-
	BC560C h _{FE}	420	-	800	-
Collector Saturation Voltage at -I _C = 10 mA, -I _B = 0.5 mA at -I _C = 100 mA, -I _B = 5 mA	-V _{CEsat}	-	-	300	mV
	-V _{CEsat}	-	-	650	mV
Base Emitter On Voltage at -V _{CE} = 5 V, -I _C = 2 mA at -V _{CE} = 5 V, -I _C = 10 mA	-V _{BE(on)}	600	-	750	mV
	-V _{BE(on)}	-	-	800	mV
Collector-Emitter Breakdown Voltage at -I _C = 10 mA	-V _{(BR)CEO}	45	-	-	V
Collector-Base Breakdown Voltage at -I _C = 10 μA	-V _{(BR)CBO}	50	-	-	V
Emitter-Base Breakdown Voltage at -I _E = 10 μA	-V _{(BR)EBO}	5	-	-	V
Collector Cutoff Current at -V _{CB} = 30 V	-I _{CBO}	-	-	15	nA
Emitter Cutoff Current at -V _{EB} = 4 V	-I _{EBO}	-	-	15	nA
Current Gain Bandwidth Product at -V _{CE} = 5 V, -I _C = 10 mA, f = 100 MHz	f _T	-	150	-	MHz
Collector Base Capacitance at -V _{CB} = 10 V, f = 1 MHz	C _{cbo}	-	-	6	pF
Noise Figure at -V _{CE} = 5 V, -I _C = 200 μA, R _G = 2 KΩ, f = 1KHz, Δf = 200 KHz	NF	-	-	4	dB

**SEMTECH**

Dated : 31/07/2006



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BC560

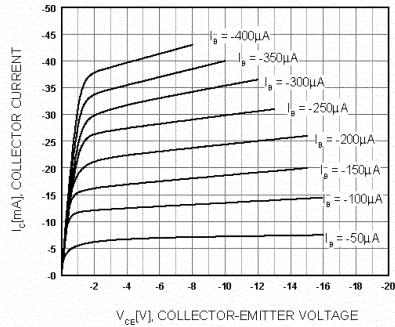


Figure 1. Static Characteristic

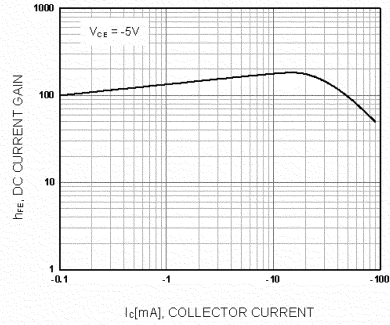


Figure 2. DC current Gain

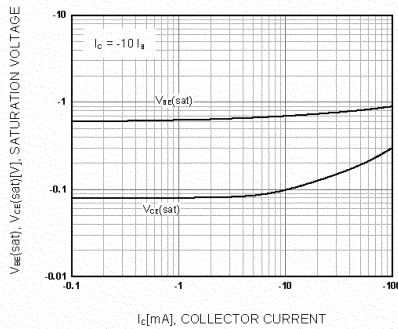


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

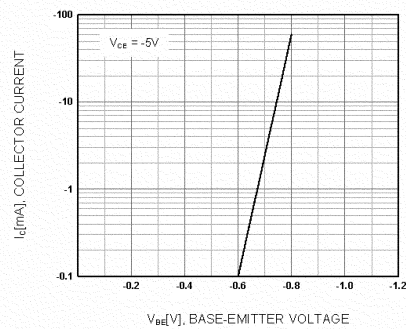


Figure 4. Base-Emitter On Voltage

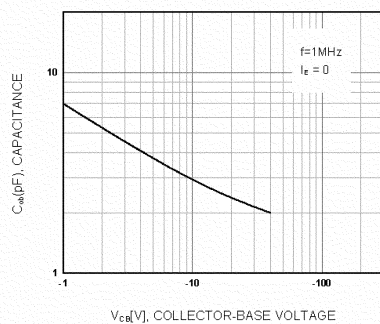


Figure 5. Collector Output Capacitance

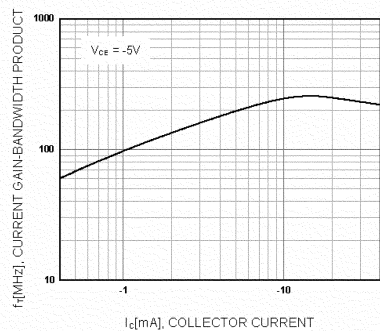
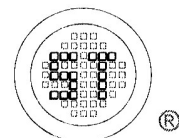


Figure 6. Current Gain Bandwidth Product



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