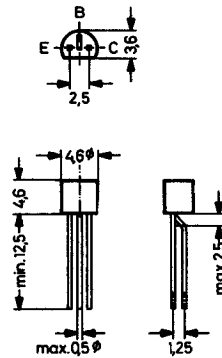


BC250

PNP Silicon Epitaxial Planar Transistor for switching and amplifier applications

The transistor is subdivided into three groups A, B and C according to its DC current gain.



Plastic package \approx JEDEC TO-92
TO-18 compatible
The case is impervious to light

Weight about 0.18 g
Dimensions in mm

Absolute Maximum Ratings

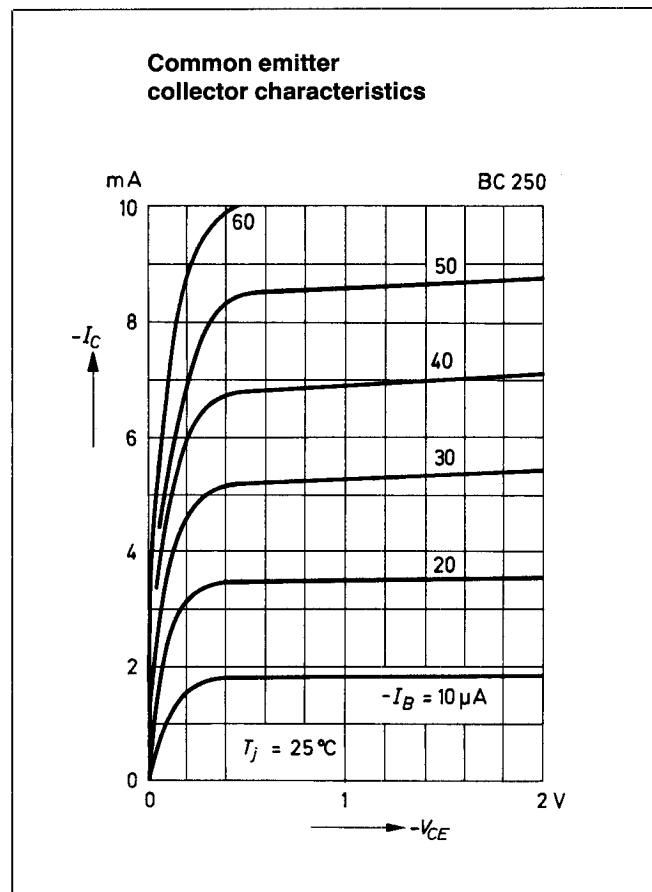
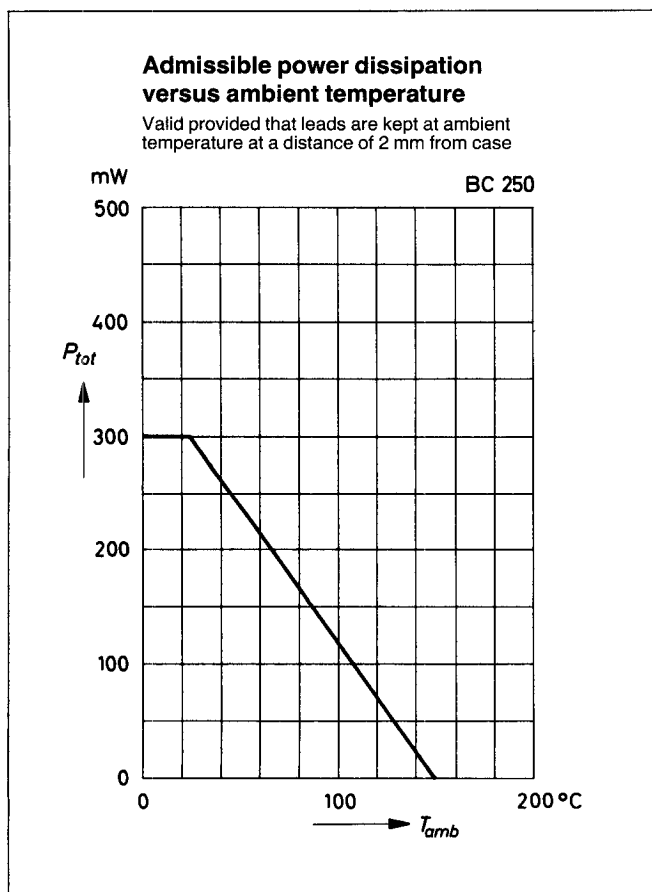
	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	20	V
Collector Emitter Voltage	$-V_{CEO}$	20	V
Emitter Base Voltage	$-V_{EBO}$	5	V
Collector Current	$-I_C$	100	mA
Power Dissipation at $T_{amb} = 25\text{ }^\circ\text{C}$	P_{tot}	300 ¹⁾	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	$-55 \dots +150$	$^\circ\text{C}$

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 2 mm from case

Characteristics at $T_j = 25\text{ }^\circ\text{C}$

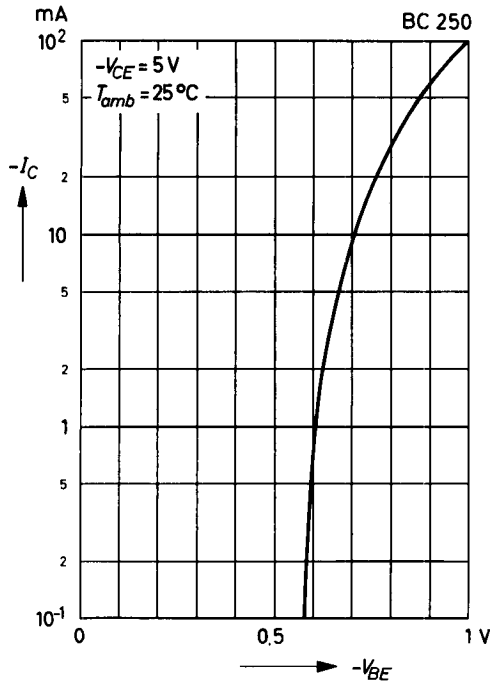
	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $-V_{CE} = 1\text{ V}$, $-I_C = 1\text{ mA}$ Current Gain Group A B C	h_{FE}	35	–	100	–
	h_{FE}	80	–	250	–
	h_{FE}	200	–	600	–
Collector Saturation Voltage at $-I_C = 30\text{ mA}$, $-I_B = 3\text{ mA}$	$-V_{CEsat}$	–	0.4	–	V
Collector Cutoff Current at $-V_{CB} = 15\text{ V}$	$-I_{CBO}$	–	–	100	nA
Emitter Cutoff Current at $-V_{EB} = 4\text{ V}$	$-I_{EBO}$	–	–	100	nA
Gain Bandwidth Product at $-V_{CE} = 5\text{ V}$, $-I_C = 10\text{ mA}$, $f = 100\text{ MHz}$	f_T	–	180	–	MHz
Collector Base Capacitance at $-V_{CBO} = 10\text{ V}$, $f = 1\text{ MHz}$	C_{CBO}	–	3	–	pF
Emitter Base Capacitance at $-V_{EBO} = 0.5\text{ V}$, $f = 1\text{ MHz}$	C_{EBO}	–	12	–	pF
Thermal Resistance Junction to Ambient	R_{thA}	–	–	400 ¹⁾	K/W

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 2 mm from case

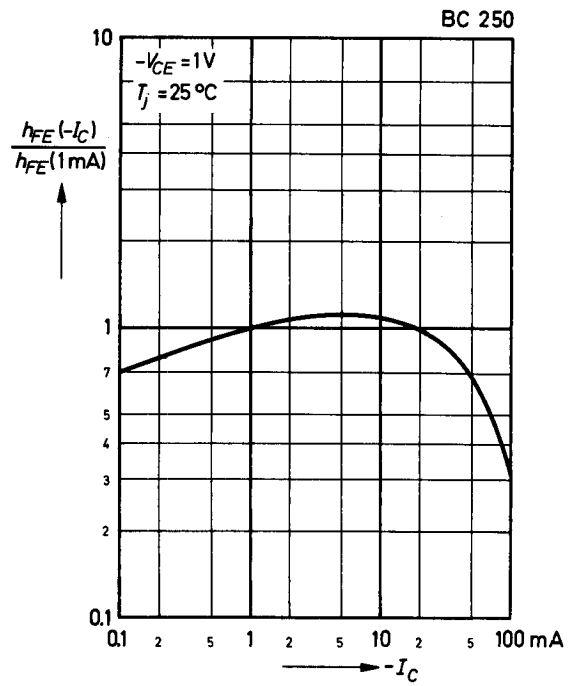


BC250

Collector current versus base emitter voltage



Relative DC current gain versus collector current



Collector cutoff current versus junction temperature

