

BC212

PNP Silicon Epitaxial Planar Transistor

for general purpose amplifier



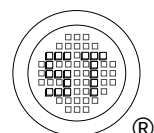
1. Emitter 2. Collector 3. Base
TO-92 Plastic Package

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{\text{CBO}}$	60	V
Collector Emitter Voltage	$-V_{\text{CEO}}$	50	V
Emitter Base Voltage	$-V_{\text{EBO}}$	5	V
Collector Current	$-I_{\text{C}}$	100	mA
Total Power Dissipation	P_{tot}	350	mW
Junction Temperature	T_{j}	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at $-V_{\text{CE}} = 5\text{ V}$, $-I_{\text{C}} = 10\text{ }\mu\text{A}$ at $-V_{\text{CE}} = 5\text{ V}$, $-I_{\text{C}} = 2\text{ mA}$	h_{FE} h_{FE}	40 60	- 300	- -
Collector Base Cutoff Current at $-V_{\text{CB}} = 30\text{ V}$	$-I_{\text{CBO}}$	-	15	nA
Emitter Base Cutoff Current at $-V_{\text{EB}} = 4\text{ V}$	$-I_{\text{EBO}}$	-	15	nA
Collector Base Breakdown Voltage at $-I_{\text{C}} = 10\text{ }\mu\text{A}$	$-V_{(\text{BR})\text{CBO}}$	60	-	V
Collector Emitter Breakdown Voltage at $-I_{\text{C}} = 2\text{ mA}$	$-V_{(\text{BR})\text{CEO}}$	50	-	V
Emitter Base Breakdown Voltage at $-I_{\text{E}} = 10\text{ }\mu\text{A}$	$-V_{(\text{BR})\text{EBO}}$	5	-	V
Collector Emitter Saturation Voltage at $-I_{\text{C}} = 100\text{ mA}$, $-I_{\text{B}} = 5\text{ mA}$	$-V_{\text{CE(sat)}}$	-	0.6	V
Base Emitter Saturation Voltage at $-I_{\text{C}} = 100\text{ mA}$, $-I_{\text{B}} = 5\text{ mA}$	$-V_{\text{BE(sat)}}$	-	1.1	V
Base Emitter On Voltage at $-V_{\text{CE}} = 5\text{ V}$, $-I_{\text{C}} = 2\text{ mA}$	$-V_{\text{BE(on)}}$	0.6	0.72	V
Gain Bandwidth Product at $-V_{\text{CE}} = 5\text{ V}$, $-I_{\text{C}} = 10\text{ mA}$, $f = 100\text{ MHz}$	f_{T}	200	-	MHz
Output Capacitance at $-V_{\text{CB}} = 10\text{ V}$, $f = 1\text{ MHz}$	C_{cbo}	-	10	pF



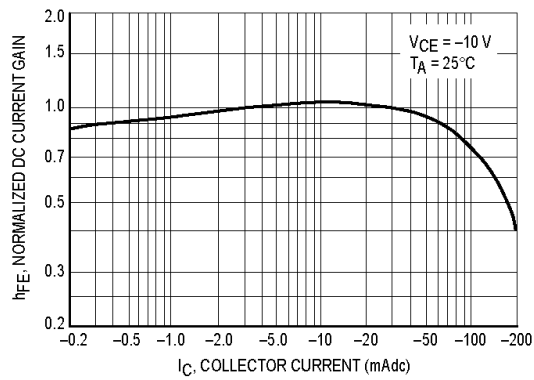


Figure 1. Normalized DC Current Gain

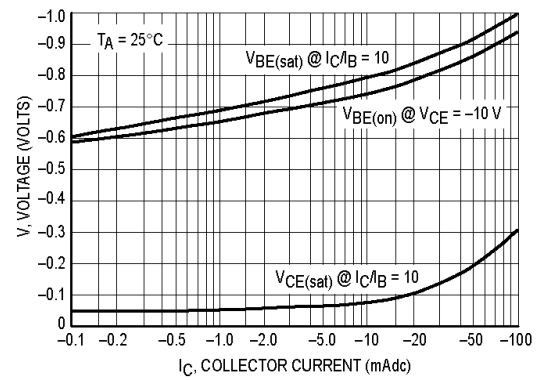


Figure 2. "Saturation" and "On" Voltages

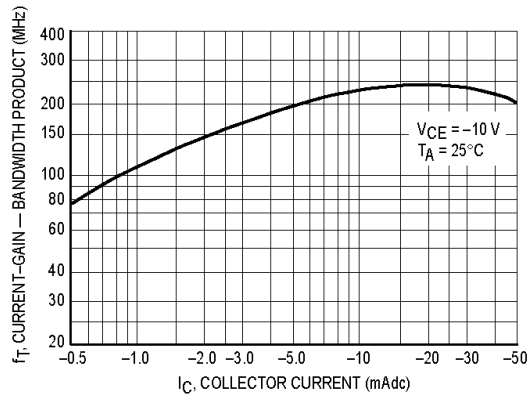


Figure 3. Current-Gain — Bandwidth Product

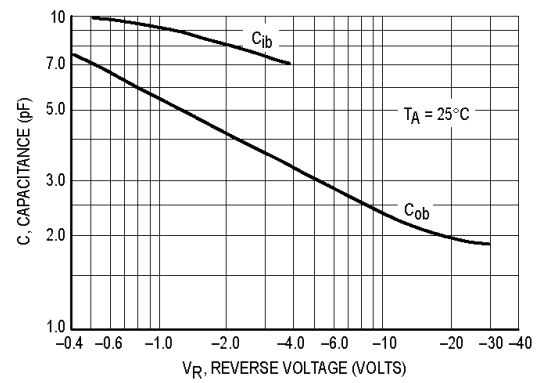


Figure 4. Capacitances

