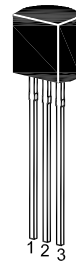


BC327...BC328

PNP Silicon Epitaxial Planar Transistor

for switching and amplifier applications

These types are subdivided into three groups -16, -25 and -40, according to their DC current gain.



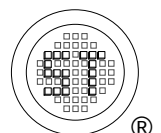
1. Collector 2. Base 3. Emitter
TO-92 Plastic Package

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

Parameter	Symbol	BC327	BC328	Unit
Collector Base Voltage	$-V_{CBO}$	50	30	V
Collector Emitter Voltage	$-V_{CEO}$	45	25	V
Emitter Base Voltage	$-V_{EBO}$	5		V
Collector Current	$-I_C$	800		mA
Peak Collector Current	$-I_{CM}$	1		A
Total Power Dissipation	P_{tot}	625		mW
Junction Temperature	T_j	150		°C
Storage Temperature Range	T_{stg}	- 55 to + 150		°C

Characteristics at $T_a = 25\text{ °C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain					
at $-V_{CE} = 1\text{ V}$, $-I_C = 100\text{ mA}$					
Current Gain Group -16	h_{FE}	100	-	250	-
-25	h_{FE}	160	-	400	-
-40	h_{FE}	250	-	630	-
at $-V_{CE} = 1\text{ V}$, $-I_C = 300\text{ mA}$					
-16	h_{FE}	60	-	-	-
-25	h_{FE}	100	-	-	-
-40	h_{FE}	170	-	-	-
Collector Base Cutoff Current					
at $-V_{CB} = 45\text{ V}$					
BC327	$-I_{CBO}$	-	-	100	nA
at $-V_{CB} = 25\text{ V}$					
BC328	$-I_{CBO}$	-	-	100	nA
Collector Base Breakdown Voltage					
at $-I_C = 100\text{ }\mu\text{A}$					
BC327	$-V_{(BR)CBO}$	50	-	-	V
BC328	$-V_{(BR)CBO}$	30	-	-	V
Collector Emitter Breakdown Voltage					
at $-I_C = 10\text{ mA}$					
BC327	$-V_{(BR)CEO}$	45	-	-	V
BC328	$-V_{(BR)CEO}$	25	-	-	V
Emitter Base Breakdown Voltage					
at $-I_E = 100\text{ }\mu\text{A}$					
	$-V_{(BR)EBO}$	5	-	-	V
Collector Emitter Saturation Voltage					
at $-I_C = 500\text{ mA}$, $-I_E = 50\text{ mA}$					
	$-V_{CE(sat)}$	-	-	0.7	V
Base Emitter On Voltage					
at $-V_{CE} = 1\text{ V}$, $-I_C = 300\text{ mA}$					
	$-V_{BE(on)}$	-	-	1.2	V
Gain Bandwidth Product					
at $-V_{CE} = 5\text{ V}$, $-I_C = 10\text{ mA}$, $f = 50\text{ MHz}$					
	f_T	-	100	-	MHz
Collector Base Capacitance					
at $-V_{CB} = 10\text{ V}$, $f = 1\text{ MHz}$					
	C_{cbo}	-	12	-	pF



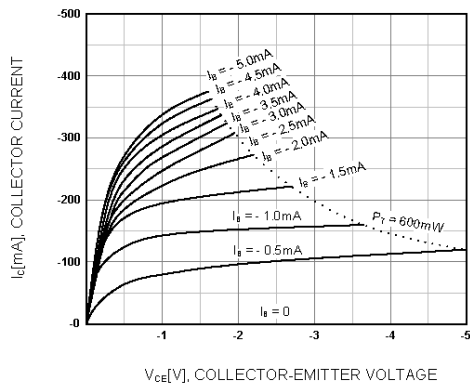


Figure 1. Static Characteristic

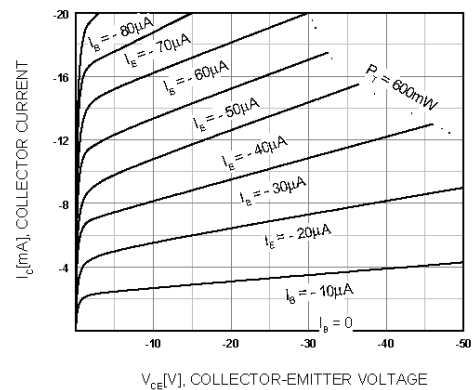


Figure 2. Static Characteristic

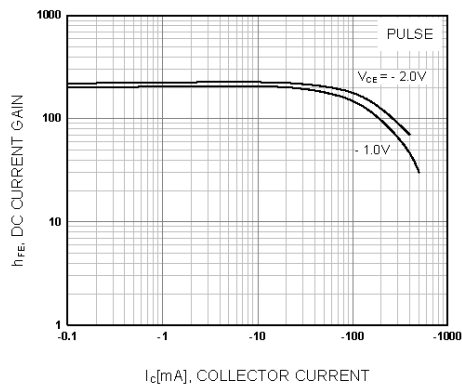


Figure 3. DC current Gain

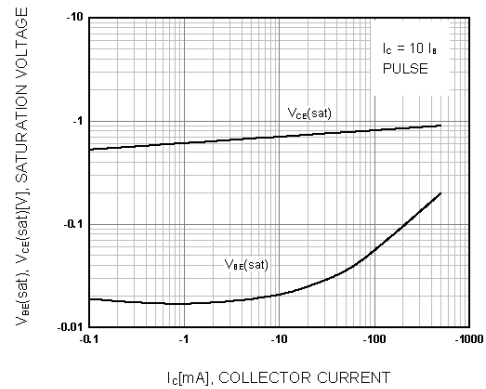


Figure 4. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

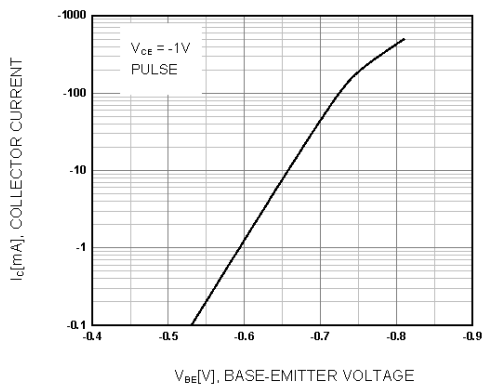


Figure 5. Base-Emitter On Voltage

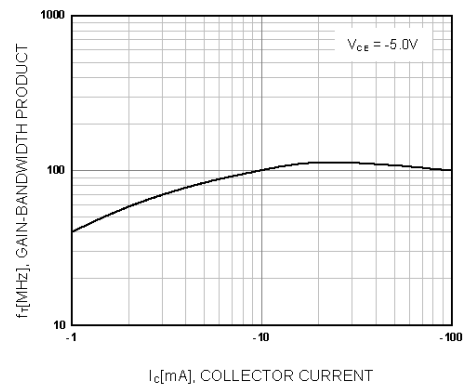


Figure 6. Gain Bandwidth Product

