



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
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BC807 / BC808

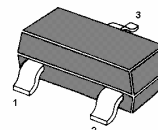
PNP Silicon Epitaxial Planar Transistors

for switching, AF driver and amplifier applications

These transistors are subdivided into three groups

-16, -25 and -40, according to their current gain.

As complementary types the NPN transistors BC817
and BC818 are recommended.



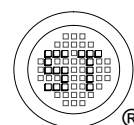
1. Base 2. Emitter 3. Collector
SOT-23 Plastic Package

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

Parameter	Symbol	Value	Unit	
Collector Base Voltage	BC807 BC808	- V_{CBO}	50 30	V
Collector Emitter Voltage	BC807 BC808	- V_{CEO}	45 25	V
Emitter Base Voltage		- V_{EBO}	5	V
Collector Current		- I_C	500	mA
Power Dissipation		P_{tot}	200	mW
Thermal Resistance Junction to Ambient Air		$R_{\theta JA}$	500	K/W
Junction Temperature		T_J	150	$^\circ\text{C}$
Storage Temperature Range		T_S	- 55 to + 150	$^\circ\text{C}$

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

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	-	600	-
		h_{FE}	40	-	-	-
Collector Base Cutoff Current at $-V_{CB} = 20\text{ V}$	- I_{CBO}	-	-	100	nA	
Emitter-Base Cutoff Current at $-V_{EB} = 5\text{ V}$	- I_{EBO}	-	-	100	nA	
Collector Saturation Voltage at $-I_C = 500\text{ mA}$, $-I_B = 50\text{ mA}$	- V_{CEsat}	-	-	0.7	V	
Base-Emitter Voltage at $-I_C = 500\text{ mA}$, $-V_{CE} = 1\text{ V}$	- $V_{BE(on)}$	-	-	1.2	V	
Gain -Bandwidth Product at $-V_{CE} = 5\text{ V}$, $-I_C = 10\text{ mA}$, $f = 50\text{ MHz}$	f_T	80	-	-	MHz	
Collector-Base Capacitance at $-V_{CB} = 10\text{ V}$, $f = 1\text{ MHz}$	C_{CBO}	-	9	-	pF	



Dated : 19/12/2006



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