## BC817 / BC818

## **NPN Silicon Epitaxial Planar Transistors**

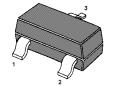
for switching, AF driver and amplifier application,

These transistors are subdivided into three groups

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

As complementary types, the PNP transistors

BC807 and BC808 are recommended.



1. Base 2. Emitter 3. Collector TO-236 Plastic Package

Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

Parameter		Symbol	Value	Unit	
Collector Base Voltage	BC817 BC818	$V_{CBO}$	50 30	V	
Collector Emitter Voltage	BC817 BC818	V <sub>CEO</sub>	45 25	V	
Emitter Base Voltage		$V_{EBO}$	5	V	
Collector Current		Ic	500	mA	
Power Dissipation		P <sub>tot</sub>	300	mW	
Junction Temperature		T <sub>j</sub>	150	°C	
Storage Temperature Range		T <sub>stg</sub>	- 55 to + 150	°C	

Electrical Characteristics at T<sub>a</sub> = 25 °C

Parameter		Min.	Тур.	Max.	Unit
DC Current Gain at $V_{CE} = 1 \text{ V}$ , $I_{C} = 100 \text{ mA}$ Current Gain Group -16 -25 -40	h <sub>FE</sub> h <sub>FE</sub> h <sub>FE</sub>	100 160 250	-	250 400 600	- - -
at $V_{CE} = 1 \text{ V}, I_{C} = 500 \text{ mA}$	h <sub>FE</sub>	40	-	-	-
Collector Base Cutoff Current at $V_{CB} = 20 \text{ V}$	I <sub>CBO</sub>	ı	ı	100	nA
Emitter Base Cutoff Current at $V_{EB} = 5 \text{ V}$	I <sub>EBO</sub>	ı	ı	100	nA
Collector Emitter Saturation Voltage at $I_C = 500$ mA, $I_B = 50$ mA	V <sub>CE(sat)</sub>	-	-	0.7	V
Base Emitter Voltage at $I_C = 500$ mA, $V_{CE} = 1$ V	$V_{BE(on)}$	-	-	1.2	V
Transition Frequency at $V_{CE} = 5 \text{ V}$ , $I_C = 10 \text{ mA}$ , $f = 50 \text{ MHz}$	f <sub>T</sub>	100	-	-	MHz
Collector Base Capacitance at $V_{CB} = 10 \text{ V}$ , $f = 1 \text{ MHz}$	C <sub>ob</sub>	-	5	-	pF

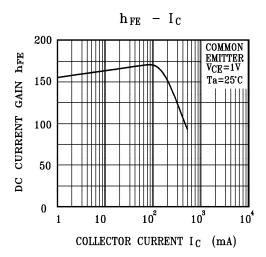


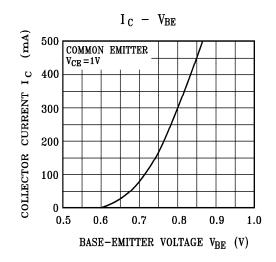


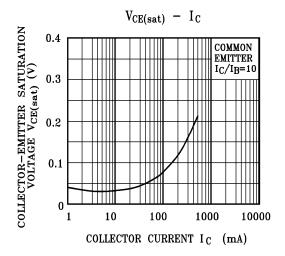


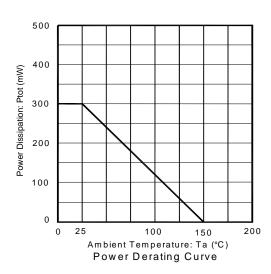






















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