

# TRANSISTOR (NPN)

BC817-16 BC817-25 BC817-40

#### **FEATURES**

- For general AF applications
- High collector current
- High current gain
- Low collector-emitter saturation voltage
- Complementary types: BC807 (PNP)



MAXIMUM RATINGS (T<sub>A</sub>=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units	
V <sub>CBO</sub>	Collector-Base Voltage	50	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	r Voltage 45		
V <sub>EBO</sub>	Emitter-Base Voltage	5	V	
Ic	Collector Current -Continuous	0.5	Α	
Pc	Collector Power Dissipation	0.3	W	
Tj	Junction Temperature	150	°C	
T <sub>sta</sub>	Storage Temperature	-55-150	°C	

### **ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)**

Parameter	Symbol	Test conditions	MIN		MAX	UNIT
Collector-base breakdown voltage	V <sub>CBO</sub>	I <sub>C</sub> = 10μΑ, I <sub>E</sub> =0	50			V
Collector-emitter breakdown voltage	V <sub>CEO</sub>	I <sub>C</sub> = 10mA, I <sub>B</sub> =0	45			V
Emitter-base breakdown voltage	$V_{EBO}$	I <sub>E</sub> = 1μΑ, I <sub>C</sub> =0	5			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = 45 V , I <sub>E</sub> =0			0.1	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 4V, I <sub>C</sub> =0			0.1	μΑ
DC ourrent gain	h <sub>FE(1)</sub>	V <sub>CE</sub> = 1V, I <sub>C</sub> = 100mA	100		600	
DC current gain	h <sub>FE(2)</sub>	V <sub>CE</sub> = 1V, I <sub>C</sub> = 500mA	40			
Collector-emitter saturation voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> = 500mA, I <sub>B</sub> = 50mA			0.7	V
Base-emitter saturation voltage	V <sub>BE</sub> (sat)	I <sub>C</sub> = 500mA, I <sub>B</sub> = 50mA			1.2	V
Base-emitter voltage	$V_{BE}$	V <sub>CE</sub> = 1 V, I <sub>C</sub> = 500mA			1.2	V
Collecter capactiance	C <sub>ob</sub>	V <sub>CB</sub> =10V ,f=1MHz		10		pF
Transition frequency	f⊤	V <sub>CE</sub> = 5 V, I <sub>C</sub> = 10mA f=100MHz	100			MHz

### CLASSIFICATION OF hFE (1)

Rank	BC817-16	BC817-25	BC817-40
Range	100-250	160-400	250-600
Marking	6A	6B	6C

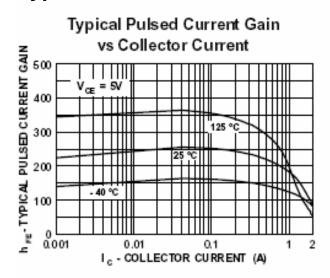
ROHS ISO9001: ISO14001
SGS

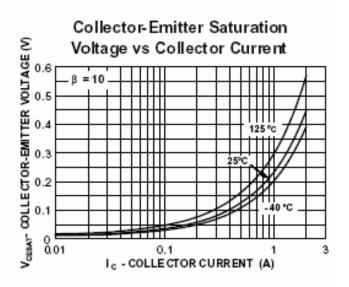
JinYu

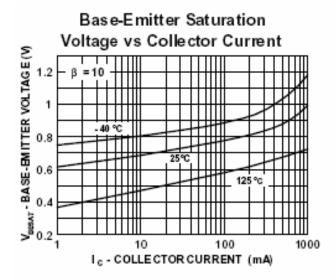
semiconductor

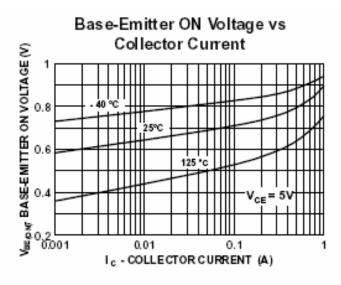


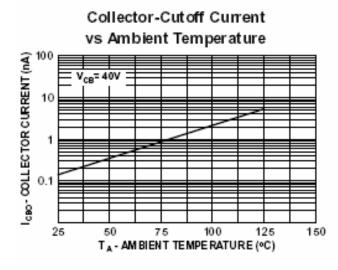
# Typical Characteristics

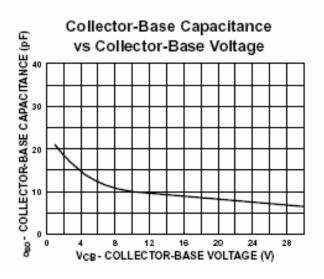












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