

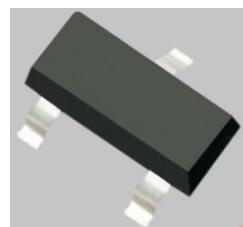
BC807/BC808-16/-25/-40

PNP Transistor

Features

- ◆ 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

SOT-23



Absolute Maximum Ratings (TA=25°C, unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector Base Voltage BC807 BC808	V _{CBO}	-50	V
		-30	
Collector Emitter Voltage BC807 BC808	V _{CEO}	-45	V
		-25	
Emitter Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-0.5	A
Power Dissipation	P _C	0.3	W
Operation Junction and Storage Temperature Range	T _{J,T_{STG}}	-55 to 150	°C

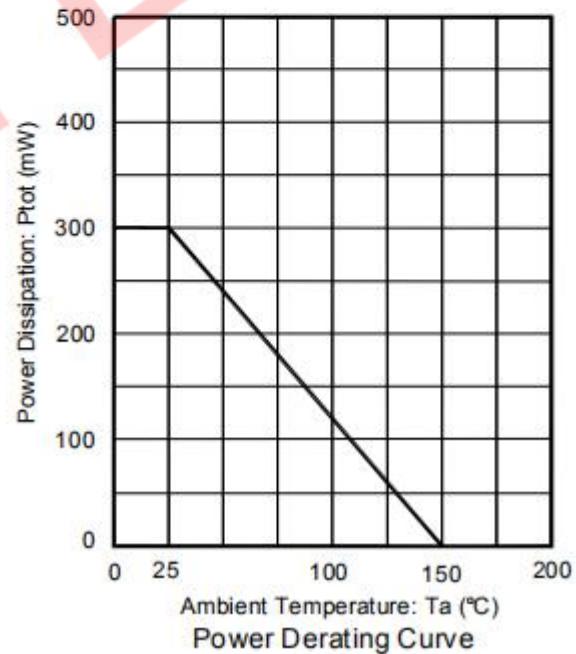
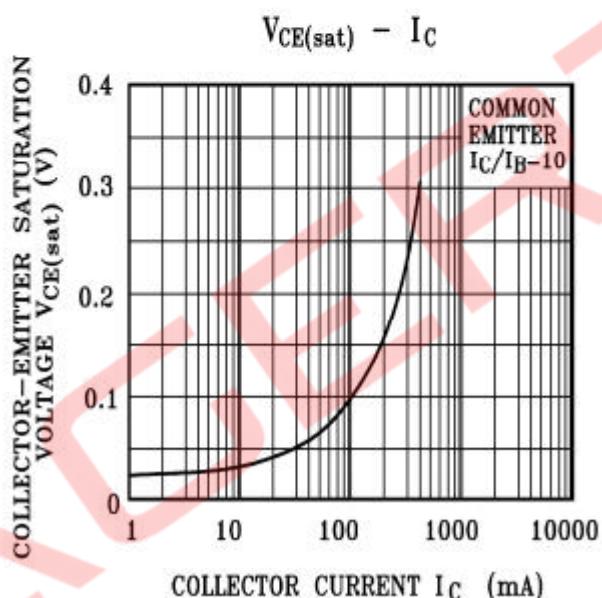
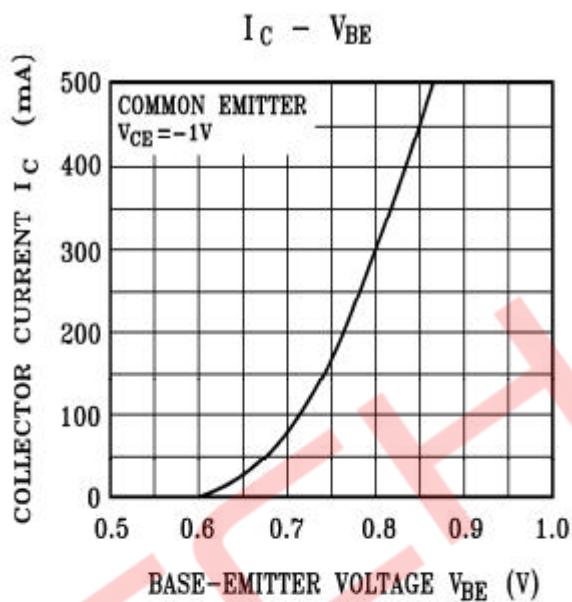
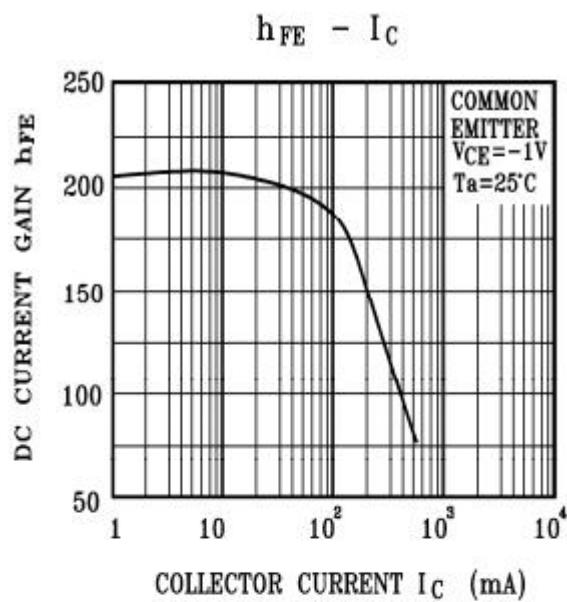
Electrical Characteristics(T_A=25 °C, unless otherwise noted)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} =-20V			-100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V			-100	nA
DC current gain	h _{FE1}	V _{CE} =-1V, I _C =-100mA	100	250		
	h _{FE2}		160	400		
	h _{FE3}		250	600		
	h _{FE4}		40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500mA, I _B =-50mA			-0.7	V
Base-emitter saturation voltage	V _{BE(on)}	I _C =-500mA, V _{CE} =-1V			-1.2	V
Transition frequency	f _T	V _{CE} =-5V, I _C =-10mA, f=50MHz	80			MHZ
Collector Base Capacitance	C _{cbo}	V _{CB} =-10V, f=1MHz		9		pF

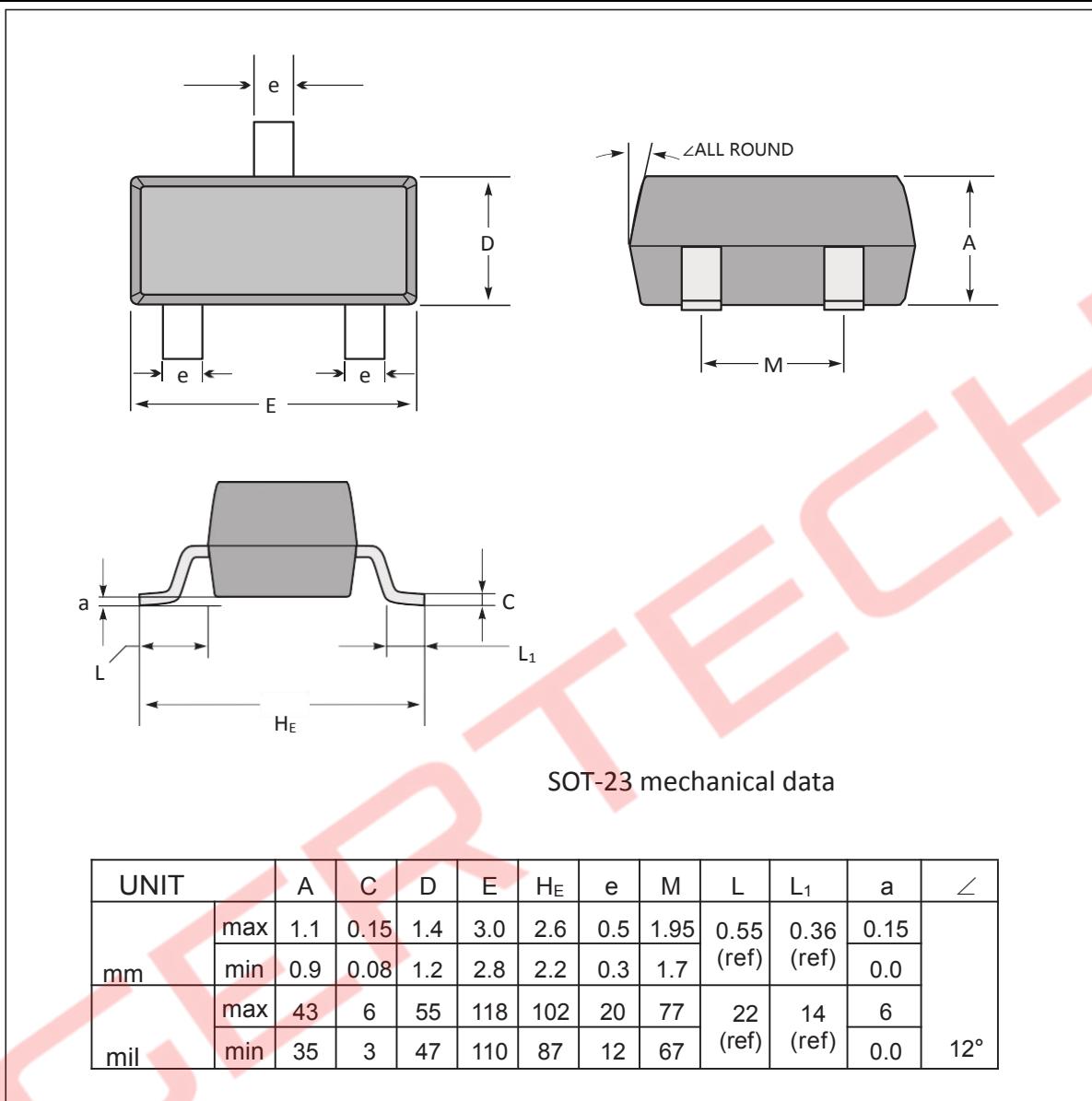
Marking

RANK	BC807-16	BC807-25	BC807-40
Marking	5CR	5CS	5CT
RANK	BC808-16	BC808-25	BC808-40
Marking	5CW	5CX	5CY

Typical Characteristics Curves



Package Outline



The recommended mounting pad size

