



SOT-23 Plastic-Encapsulate Transistors

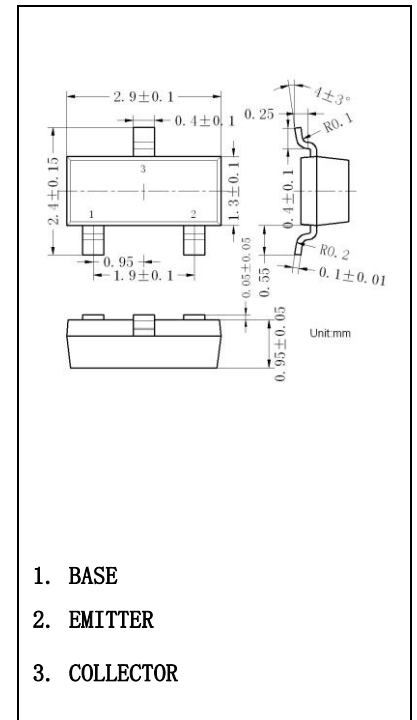
BC807 TRANSISTOR (PNP)

FEATURES:

- ⊗ Ideally suited for automatic insertion
- ⊗ Epitaxial planar die construction
- ⊗ Complementary NPN type available (BC817)

MAXIMUM RATINGS(TA=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-50	V
V _{CEO}	Collector-Emitter Voltage	-45	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current-Continuous	-0.5	A
P _C	Collector Power Dissipation	0.3	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C



ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise specified):

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-10uA, I _E =0	-50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA, I _B =0	-45			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _C =-1uA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-20V, I _E =0			-0.1	uA
Emitter cut-off current	I _{EBO}	V _{EB} =-4V, I _C =0			-0.1	uA
DC current gain	HFE ₍₁₎	V _{CE} =-1V, I _C =-100mA	100		600	
	HFE ₍₂₎	V _{CE} =-1V, I _C =-500mA	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500mA, I _B =-50mA			-0.7	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-500mA, I _B =-50mA			-1.2	V
Collector capacitance	C _{ob}	V _{CB} =-10V, f=1MHz		10		pF
Gain Bandwidth Product	f _T	V _{CE} =-5V, I _C =-10mA, f=100MHz	100			MHz

CLASSIFICATION OF h_{FE(1)}

Rank	BC807-16	BC807-25	BC807-40
Range	100-250	160-400	250-600
Marking	5A	5B	5C

Electrical Characteristic Curves

Fig. 1 P_C - T_a

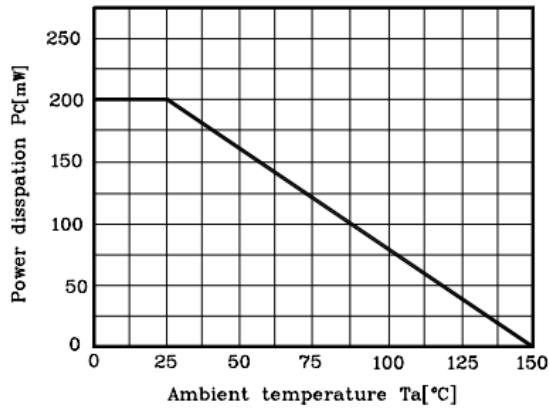


Fig. 2 I_C - V_{BE}

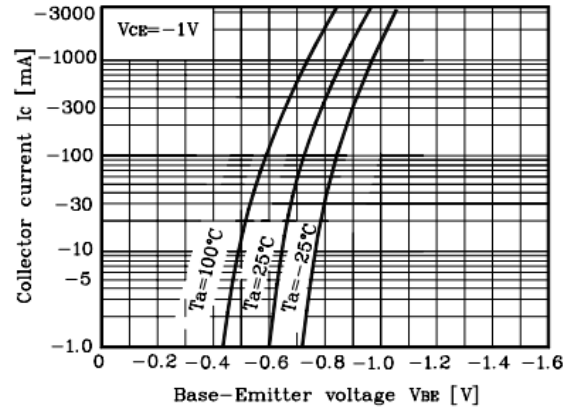


Fig. 3 I_C - V_{CE}

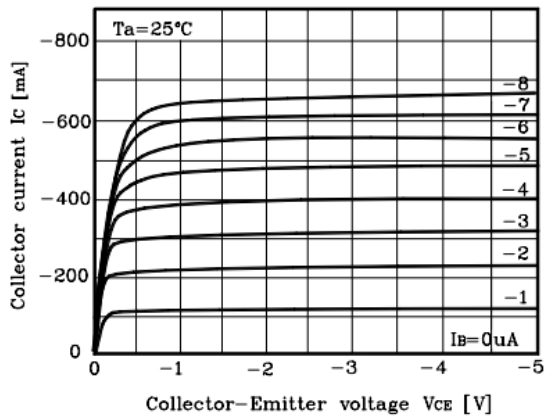


Fig. 4 h_{FE} - I_C

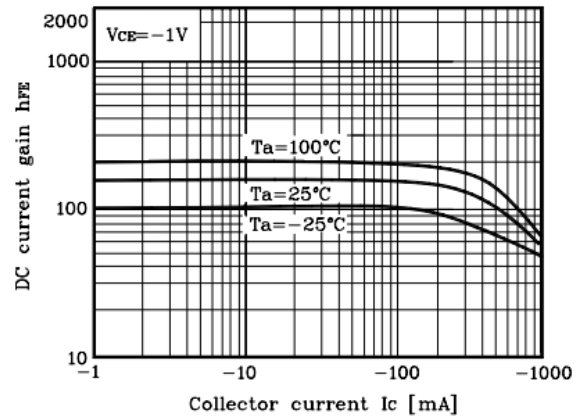
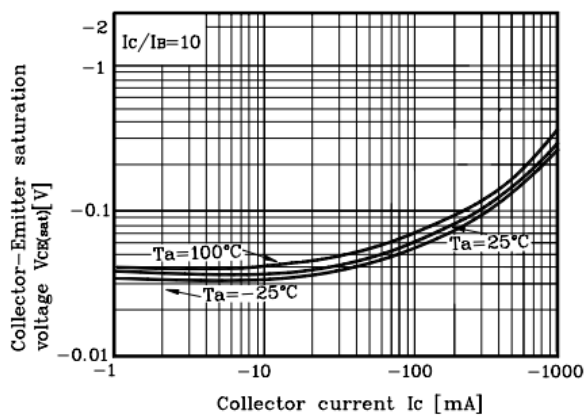


Fig. 5 $V_{CE(sat)}$ - I_C



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