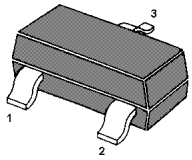
BC807 TRANSISTOR(PNP)

FEATURES

- Ideally Suited for Automatic Insertion
- Epitaxial Planar Die Construction
- For Switching, AF Driver and Amplifier Applications
- Complementary NPN Types Available (BC817)



SOT-23

1. BASE 2. EMITTER 3. COLLECTOR

MARKING:BC807-16:5A
BC807-25:5B
BC807-40:5C

MAXIMUM RATINGS (T_A=25℃ 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	℃
T_{stg}	Storage Temperature	-55-150	℃

ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter		Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage		$V_{(BR)CBO}$	I_C = -10μA, 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_E= -1μA, I_C=0	-5		V
Collector cut-off current		I_{CBO}	V_{CB}= -45V, I_E=0		-0.1	μA
Emitter cut-off current		I_{EBO}	V_{EB}= -4V, I_C=0		-0.1	μA
DC current gain	**807-16**	$h_{FE(1)}$	V_{CE}= -1V, I_C= -100mA	100	250	
	807-25	$h_{FE(2)}$	V_{CE}= -1V, I_C= -100mA	160	400	
	807-40	$h_{FE(3)}$	V_{CE}= -1V, I_C= -100mA	250	600	
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
Transition frequency		f_T	V_{CE}= -5V, I_C= -10mA f=100MHz	100		MHz

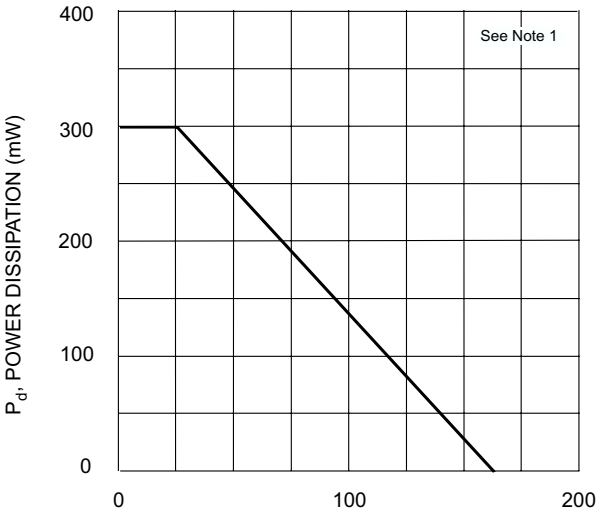


Fig. 1, Power Derating Curve

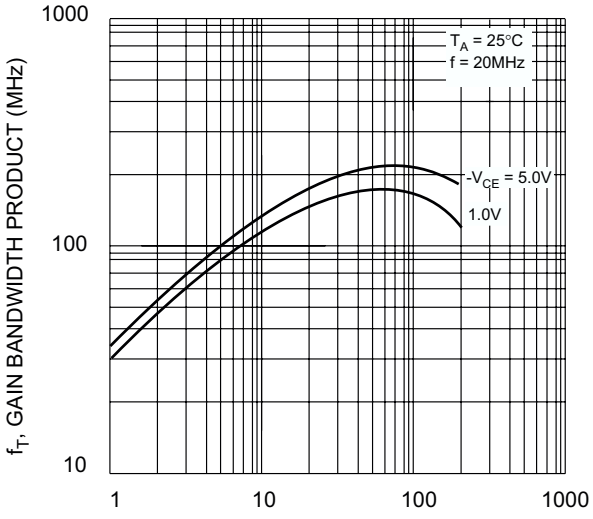


Fig. 2, Gain-Bandwidth Product vs Collector Current

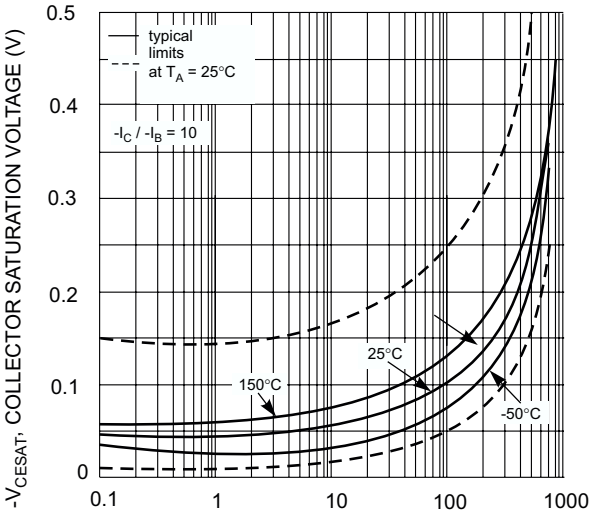


Fig. 3, Collector Sat. Voltage vs Collector Current

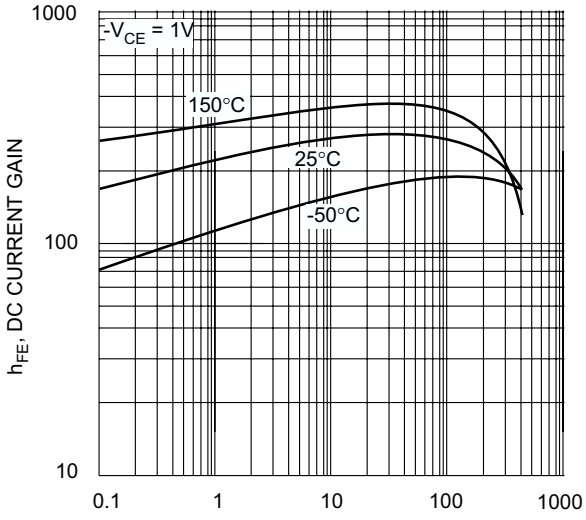


Fig. 4, DC Current Gain vs Collector Current

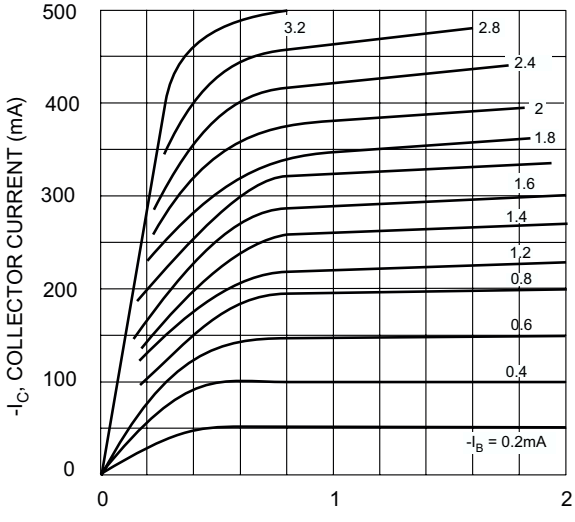


Fig. 5, Typical Emitter-Collector Characteristics

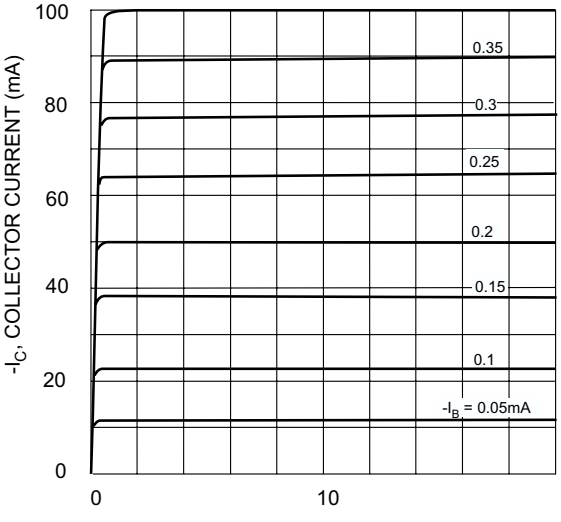
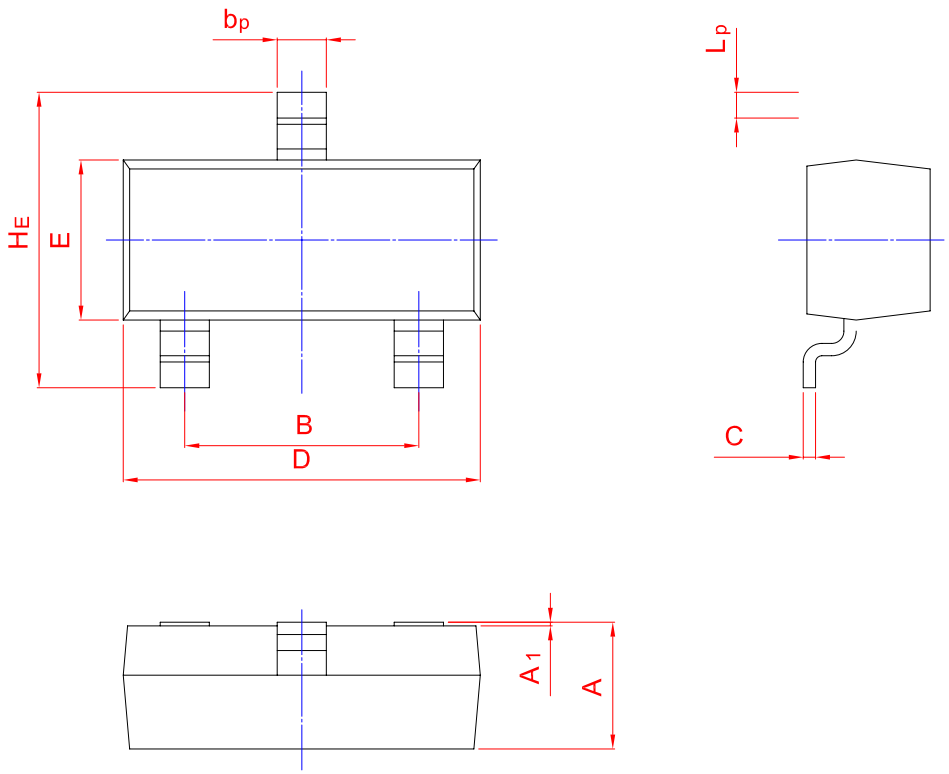


Fig. 6, Typical Emitter-Collector Characteristics

PACKAGE OUTLINE

Plastic surface mounted package; 3 leads **SOT-23**



UNIT	A	B	bp	C	D	E	HE	A1	Lp
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20

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