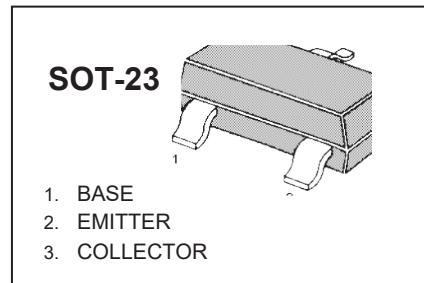


BC818… TRANSISTOR (NPN)**FEATURE**

- For general AF applications
- High collector current
- High current gain
- Low collector-emitter saturation voltage
- Complementary types: BC808 (PNP)

**MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)**

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	30	V
V_{CEO}	Collector-Emitter Voltage	25	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	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55-150	$^\circ\text{C}$

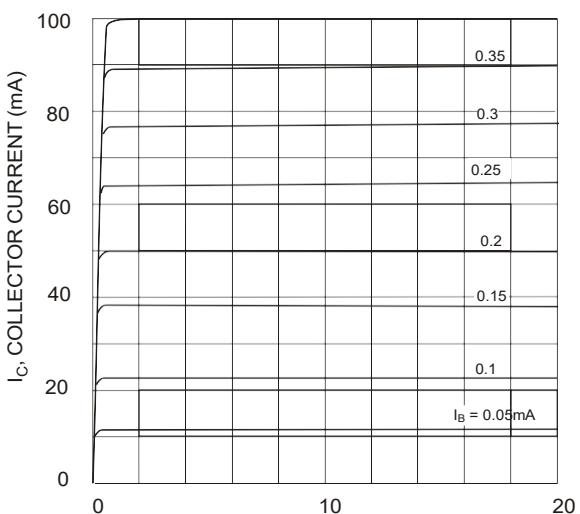
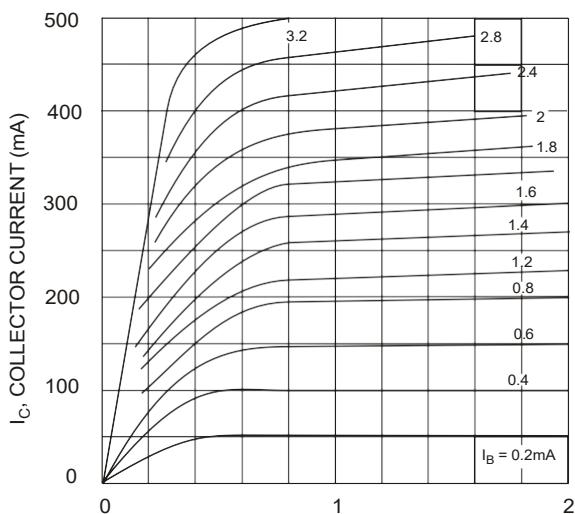
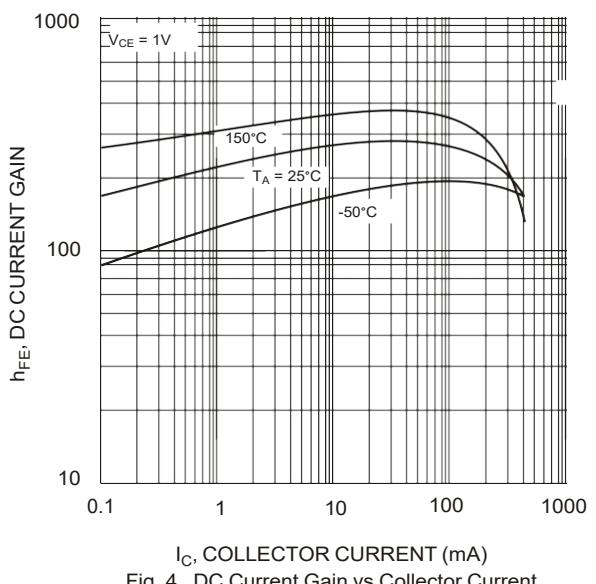
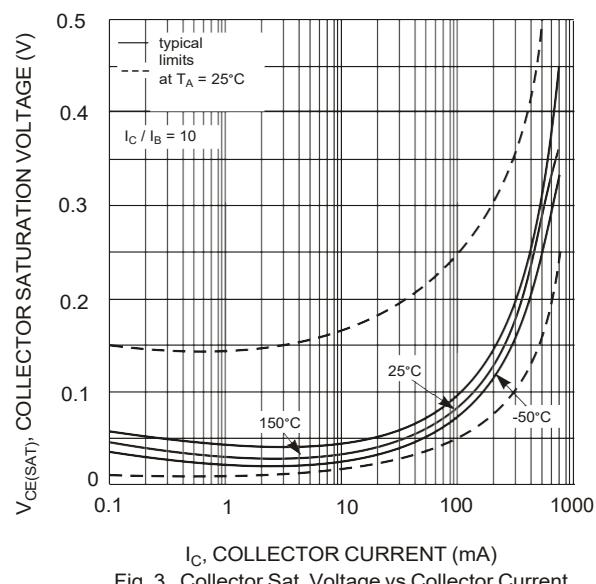
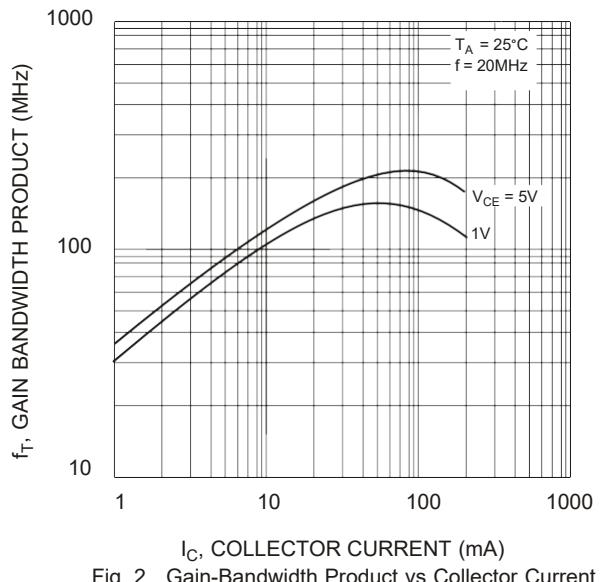
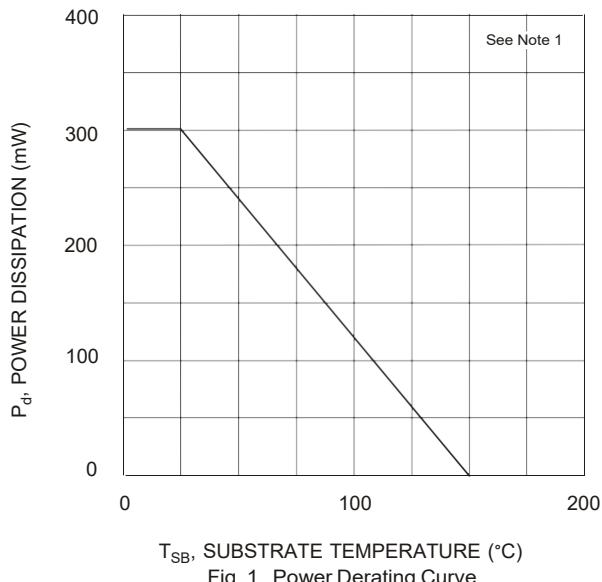
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V_{CBO}	$I_C= 10\mu\text{A}, I_E=0$	30			V
Collector-emitter breakdown voltage	V_{CEO}	$I_C= 10\text{mA}, I_B=0$	25			V
Emitter-base breakdown voltage	V_{EBO}	$I_E= 1\mu\text{A}, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}= 45\text{ V}, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}= 4\text{V}, I_C=0$			0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}= 1\text{V}, I_C= 100\text{mA}$	100		600	
	$h_{FE(2)}$	$V_{CE}= 1\text{V}, I_C= 500\text{mA}$	40			
Collector-emitter saturation voltage	$V_{CE(\text{sat})}$	$I_C= 500\text{mA}, I_B= 50\text{mA}$			0.7	V
Base-emitter saturation voltage	$V_{BE(\text{sat})}$	$I_C= 500\text{mA}, I_B= 50\text{mA}$			1.2	V
Base-emitter voltage	V_{BE}	$V_{CE}= 1\text{ V}, I_C= 500\text{mA}$			1.2	V
Collector capacitance	C_{ob}	$V_{CB}=10\text{V}, f=1\text{MHz}$		10		pF
Transition frequency	f_T	$V_{CE}= 5\text{ V}, I_C= 10\text{mA}$ $f=100\text{MHz}$	100			MHz

CLASSIFICATION OF $h_{FE}(1)$

Rank	BC818-16	BC818-25	BC818-40
Range	100-250	160-400	250-600
Marking	6E	6F	6G

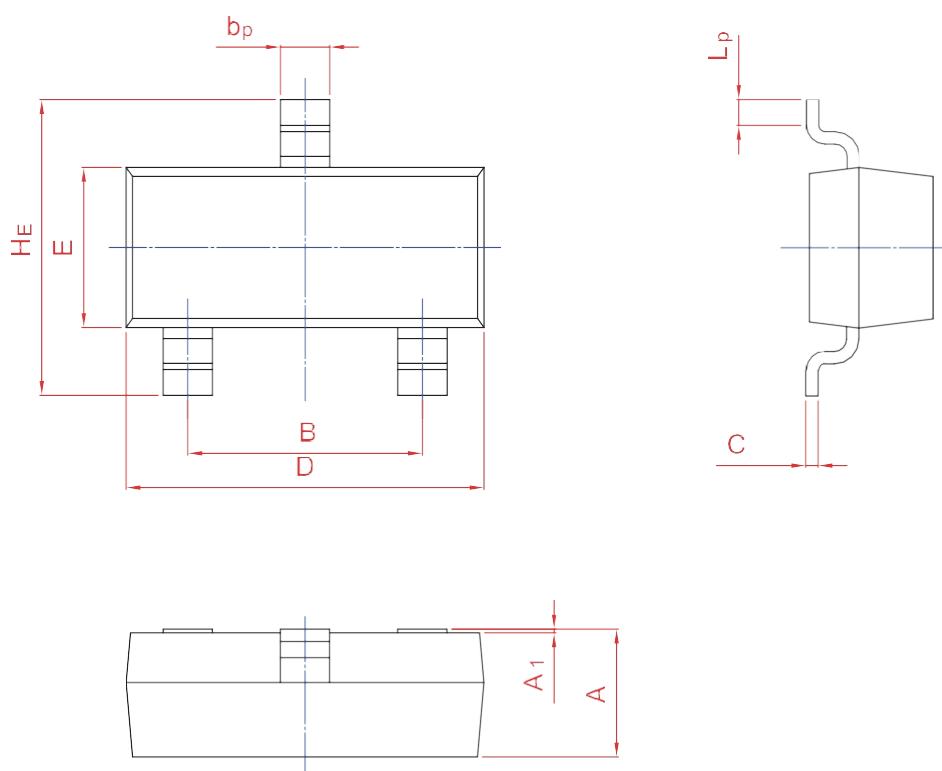
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	b_p	C	D	E	H_E	A_1	L_p
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