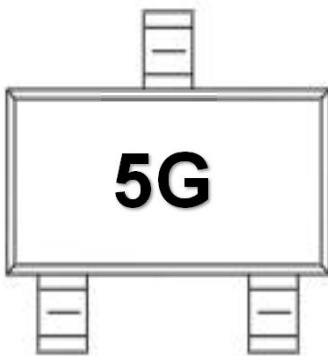
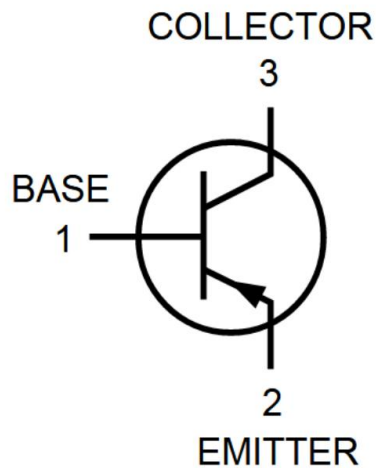


TRANSISTOR (PNP)

MARKING:

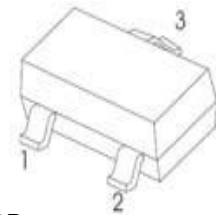


Equivalent Circuit:



SOT-23

- 1.BASE
- 2.EMITTER
- 3.COLLECTOR



FEATURES:

- ※ Complimentary to BC818
- ※ Collector Current: $I_c=0.8A$
- ※ Suitable for AF-Driver stages and low power output stages

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

Parameter	Symbol	Value	Unit
Collector-Base Voltage	VCBO	-30	V
Collector-Emitter Voltage	VCEO	-25	V
Emitter-Base Voltage	VEBO	-5	V
Collector Current	IC	-800	mA
Collector Power Dissipation	PC	300	mW
Thermal Resistance From Junction To Ambient	RθJA	416	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55~+150	°C



BC808

SOT-23 Plastic-Encapsulate Transistors

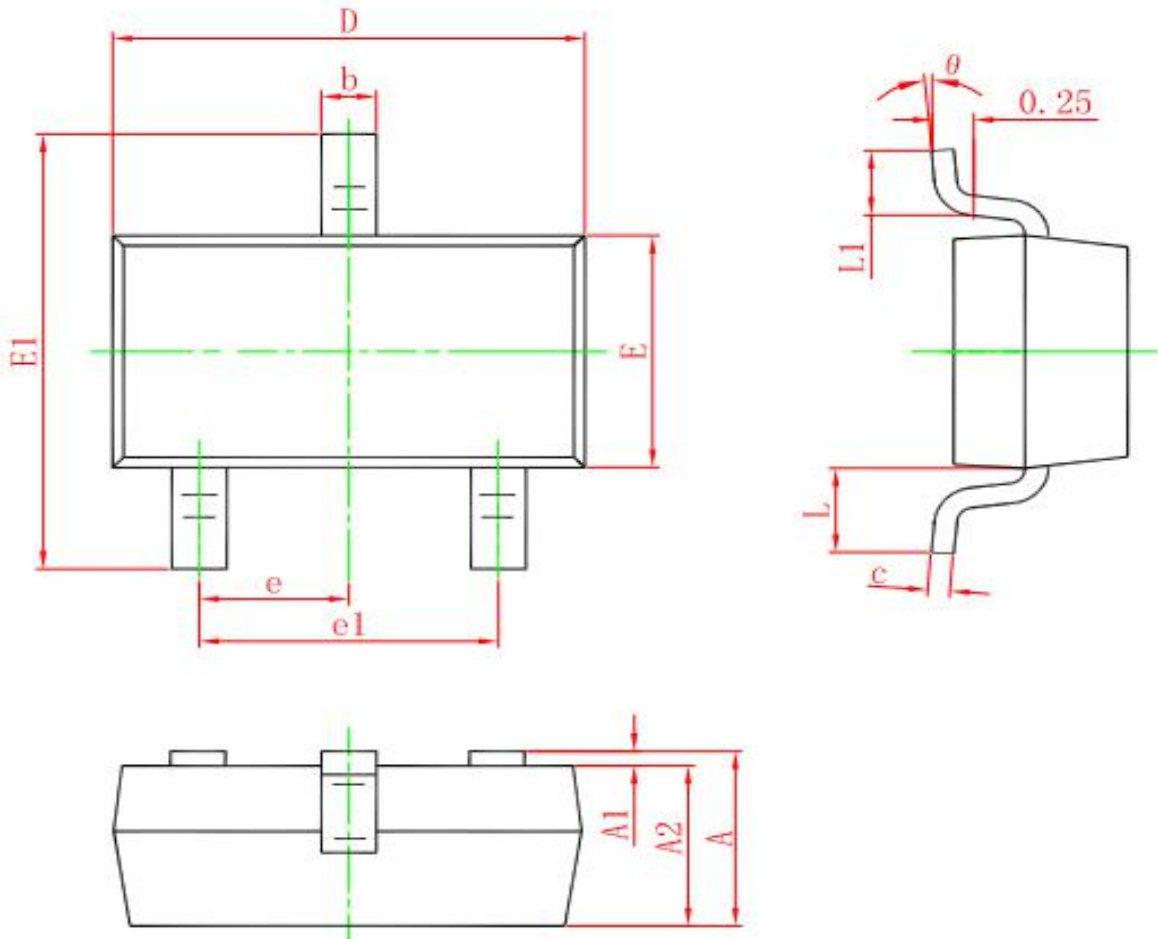
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC= -100μA, IE=0	-30			V
Collector-emitter breakdown voltage	V(BR)CEO	IC= -10mA, IB=0	-25			V
Emitter-base breakdown voltage	V(BR)EBO	IE= -100μA, IC=0	-5			V
Collector cut-off current	ICBO	VCE= -25 V , IE=0			-0.1	μA
Emitter cut-off current	IEBO	VEB= -4V , IC=0			-0.1	μA
DC current gain	hFE	VCE=-1V, IC= -100mA	100		630	
	hFE	VCE=-1V, IC= -300mA	60			
Collector-emitter saturation voltage	VCE(sat)	IC= -500 mA, IB= -50mA			-0.7	V
Base-emitter saturation voltage	VBE(sat)	VCE=-1V, IC=-300mA			-1.2	V
Transition frequency	fT	VCE=-5V, IC= -10mA f=50MHz		100		MHz
Collector output capacitance	Cob	VCE=-10V, IE=0, f=1MHz		12		pF

CLASSIFICATION OF hFE

Rank	16	25	40
Range	100-250	160-400	250-630
MARKING	5E	5F	5G

SOT-23 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.550 REF.		0.022 REF.	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°