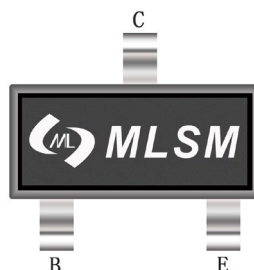
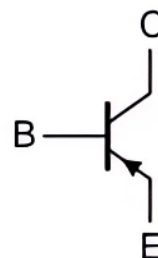


Features

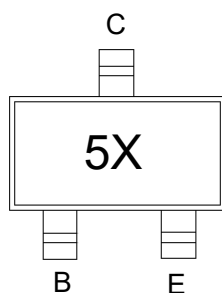
- Suitable for AF-Driver stages and low power output stages
- Complement to BC818



SOT-23 top view



Schematic diagram



Marking and pin assignment

X:Rank



Pb-Free



Halogen-Free

Maximum Ratings (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
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	-0.8	mA
P_C	Collector Power Dissipation	300	mW
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BC808	SOT-23	5E/5F/5G	3,000	45,000	180,000	7"reel

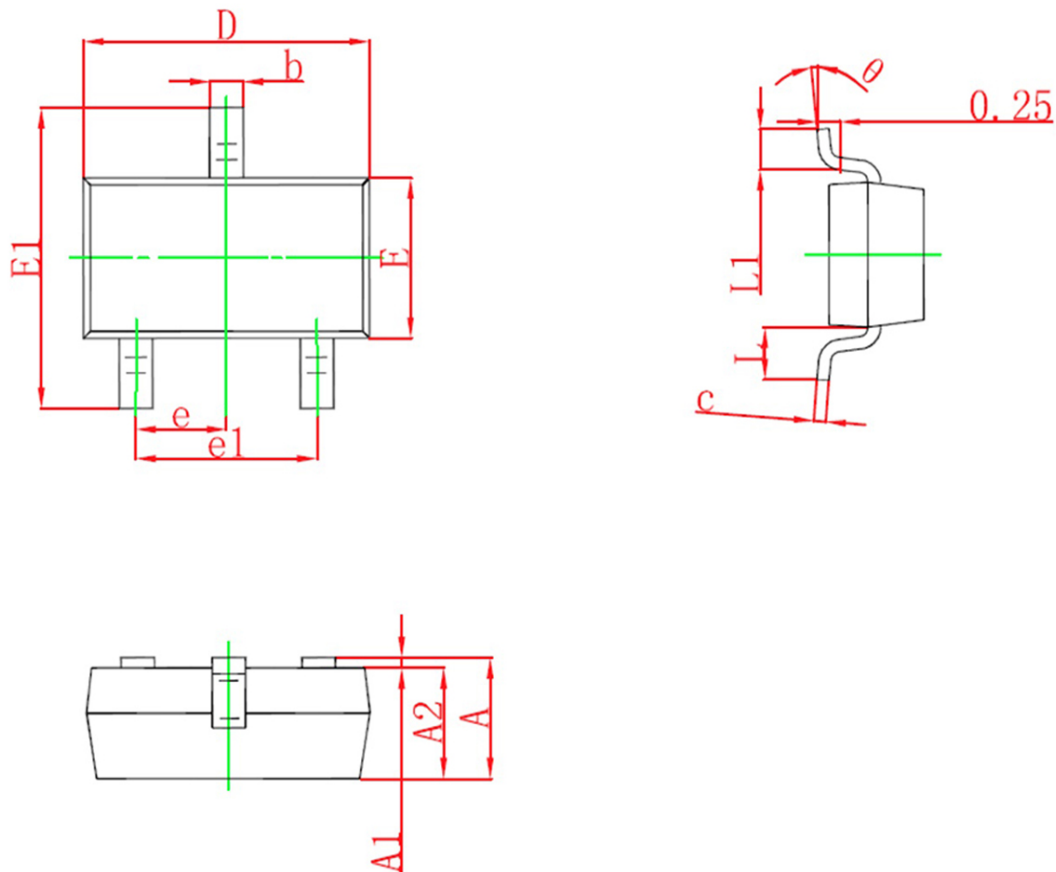
Electrical Characteristics (Ta=25°C unless otherwise specified)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=-100\mu A, I_E=0$	-30	--	--	V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=-10mA, I_B=0$	-25	--	--	V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=-100\mu A, I_C=0$	-5	--	--	V
I_{CBO}	Collector cut-off current	$V_{CB}=-25V, I_E=0$	--	--	-0.1	μA
I_{EBO}	Emitter cut-off current	$V_{EB}=-4V, I_C=0$	--	--	-0.1	μA
$H_{FE(1)}$	DC current gain	$V_{CE}=-1V, I_C=-100mA$	100	--	630	
$H_{FE(2)}$	DC current gain	$V_{CE}=-1V, I_C=-300mA$	60	--	--	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=-500mA, I_B=-50mA$	--	--	-0.7	V
V_{BE}	Base-emitter voltage	$I_C=-1V, I_C=-300mA$	--	--	-1.2	V
f_T	Transition frequency	$V_{CE}=-5V, I_C=-10mA, f=50MHz$	--	100	--	MHz
C_{ob}	Collector output capacitance	$V_{CB}=-10V, I_E=0, f=1MHz$	--	12	--	pF

Classification of hFE

Rank	E	F	G
Marking	5E	5F	5G
Range	100-250	160-400	250-630

SOT-23 Package information



Symbol	Dimensions in Millimeters(mm)		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
E1	2.250	2.550	0.088	0.100
E	1.200	1.400	0.047	0.055
e	0.950TYP		0.037TYP	
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°