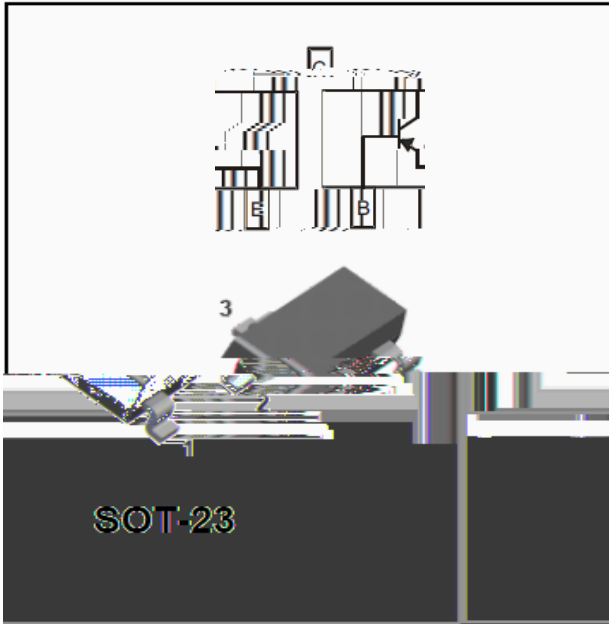


PNP Transistor



Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion

Mechanical Data

- Package:** SOT-23
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking:** 4C

Maximum Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-30	V
V_{CEO}	Collector-Emitter Voltage	-30	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-0.1	A
P_C	Collector Power Dissipation	200	mW
R_{JA}	Thermal Resistance From Junction To Ambient	625	/W
T_j	Junction Temperature	150	
T_{stg}	Storage Temperature	-55 +150	



BC859C

Electrical Characteristics (Ta=25 unless otherwise noted)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_C = -10\mu A, I_E = 0$	-30		V
Collector-emitter breakdown voltage	V_{CEO}	$I_C = -10mA, I_B = 0$	-30		V
Emitter-base breakdown voltage	V_{EBO}	$I_E = -1\mu A, I_C = 0$	-5		V
Collector-base cut-off current	I_{CBO}	$V_{CB} = -30V, I_E = 0$		-0.1	μA
Emitter-base cut-off current	I_{EBO}	$V_{EB} = -5V, I_C = 0$		-0.1	μA
DC current gain	h_{FE}	$V_{CE} = -5V, I_C = -2mA$	420	800	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100mA, I_B = -5mA$		-0.65	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -100mA, I_B = -5mA$		-1.1	V
Transition frequency	f_T	$V_{CE} = -5V, I_C = -10mA$ $f = 100MHz$	100		MHz
Collector-base output capacitance	Cob	$V_{CB} = -10V, f = 1MHz$		4.5	pF

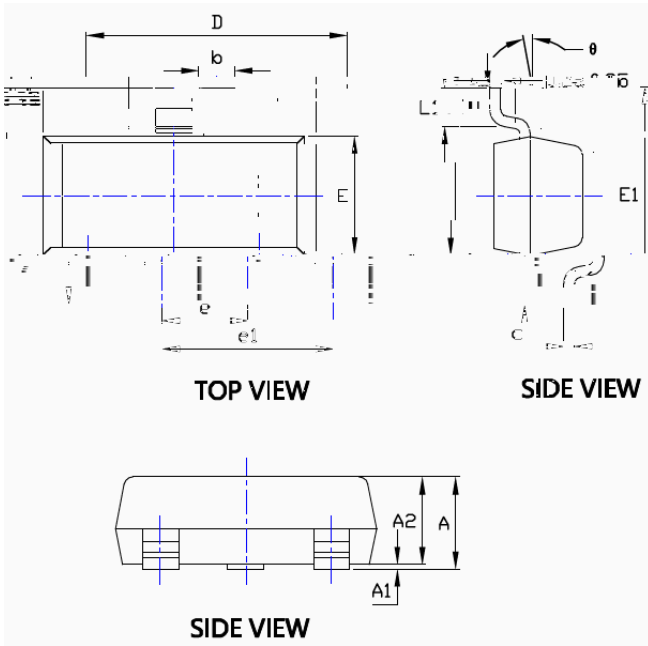
Ordering Information (Example)

BC859C



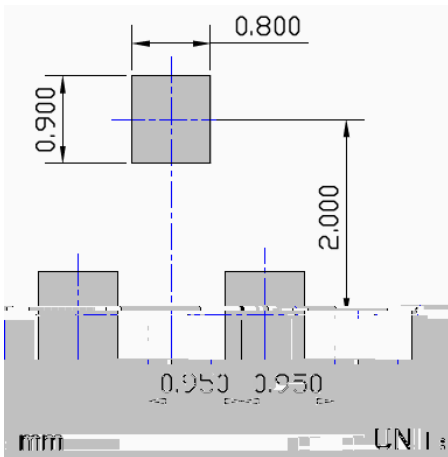
BC859C

SOT-23 Package Outline Dimensions



SYMBOL	DIMENSIONS	
	INCHES	Millimeter
A	0.033	0.84
A1	0.004	0.100
A2	0.035	0.900
b	0.012	0.300
C	0.004	0.100
D	0.050	1.270
E	0.017	0.430
E1	0.037 TYP	0.950 TYP
L	0.075	1.900
L1	0.025	0.635
L2	0.025	0.635
L3	0.025	0.635
L4	0.025	0.635
L5	0.025	0.635
L6	0.025	0.635
L7	0.025	0.635
L8	0.025	0.635
L9	0.025	0.635
L10	0.025	0.635
L11	0.025	0.635
L12	0.025	0.635
L13	0.025	0.635
L14	0.025	0.635
L15	0.025	0.635
L16	0.025	0.635
L17	0.025	0.635
L18	0.025	0.635
L19	0.025	0.635
L20	0.025	0.635
L21	0.025	0.635
L22	0.025	0.635
L23	0.025	0.635
L24	0.025	0.635
L25	0.025	0.635
L26	0.025	0.635
L27	0.025	0.635
L28	0.025	0.635
L29	0.025	0.635
L30	0.025	0.635
L31	0.025	0.635
L32	0.025	0.635
L33	0.025	0.635
L34	0.025	0.635
L35	0.025	0.635
L36	0.025	0.635
L37	0.025	0.635
L38	0.025	0.635
L39	0.025	0.635
L40	0.025	0.635
L41	0.025	0.635
L42	0.025	0.635
L43	0.025	0.635
L44	0.025	0.635
L45	0.025	0.635
L46	0.025	0.635
L47	0.025	0.635
L48	0.025	0.635
L49	0.025	0.635
L50	0.025	0.635

SOT-23 Soldering Footprint





Disclaimer