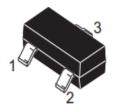


NPN Silicon Epitaxial Planar Transistor

Features

- For switching and AF amplifier applications
- As complementary types the PNP transistors BC856...BC858 is recommended.

SOT-23



1.Base 2.Emitter 3.Collector

Absolute Maximum Ratings (Ta=25°C)

Parameter		Symbol	Value	Unit
Collector Base Voltage	BC846 BC847 BC848	V _{CBO} V _{CBO} V _{CBO}	80 50 30	< < <
Collector Emitter Voltage	BC846 BC847 BC848	V _{CEO} V _{CEO}	65 45 30	> > >
Emitter Base Voltage	BC846, BC847 BC848	V _{EBO}	6 5	V V
Collector Current		lc	100	mA
Peak Collector Current		I _{CM}	200	mA
Power Dissipation		P _{tot}	300	mW
Junction Temperature		TJ	150	°C
Storage Temperature Range		T _{STG}	- 65 to + 150	°C

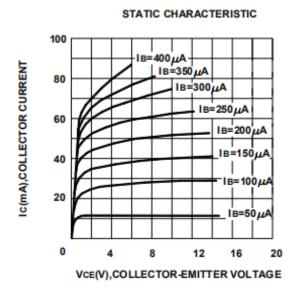


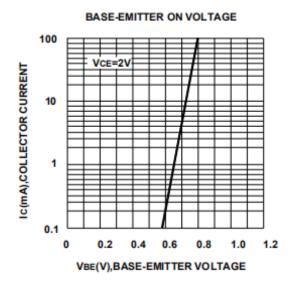
Characteristics (Ta=25°C)

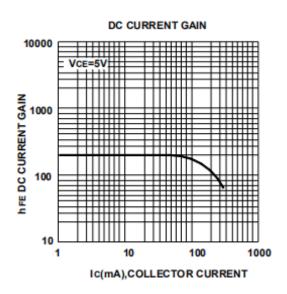
Parameter		Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at V _{CE} = 5 V, I _C = 2 mA	Current Gain Group A B C	h _{FE} h _{FE}	110 200 420		220 450 800	- - -
Collector Base Cutoff Current at V _{CB} = 30 V		I _{CBO}	-	-	15	nA
Collector Base Breakdown Voltage at I _C = 100 μA	BC846 BC847 BC848	V _{(BR)CBO}	80 50 30		-	V V
Collector Emitter Breakdown Voltage at I _C = 2 mA	BC846 BC847 BC848	V _{(BR)CEO}	65 45 30	- - -	- - -	V V
Collector Emitter Breakdown Voltage at I _C = 100 µA	BC846, BC847 BC848	V _{(BR)EBO} V _{(BR)EBO}	6 5	-	:	V V
Collector Emitter Saturation Voltage at I _C = 10 mA, I _B = 0.5 mA at I _C = 100 mA, I _B = 5 mA		V _{CEsat} V _{CEsat}		-	250 600	mV mV
Base Emitter On Voltage at V _{CE} = 5 V, I _C = 2 mA at V _{CE} = 5 V, I _C = 10 mA		V _{BE(on)}	580	-	700 720	mV mV
Transition Frequency at V _{CE} = 5 V, I _C = 10 mA, f = 100 MHz		f _T	-	300	-	MHz
Output Capacitance at V _{CB} = 10 V, f = 1 MHz		C _{ob}	1	-	6	pF
Input Capacitance at V _{EB} = 0.5 V, f = 1 MHz		C _{ib}	-	9	-	pF

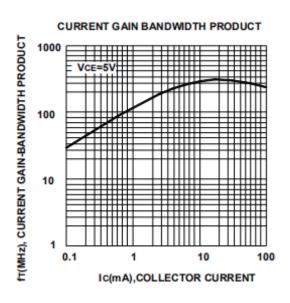


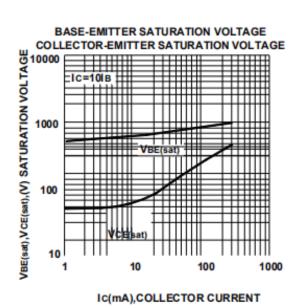
Rating And Characteristics Curves

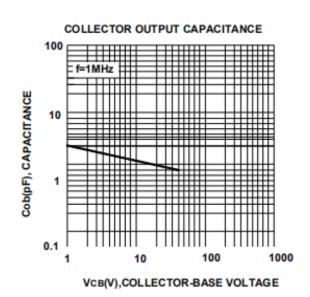








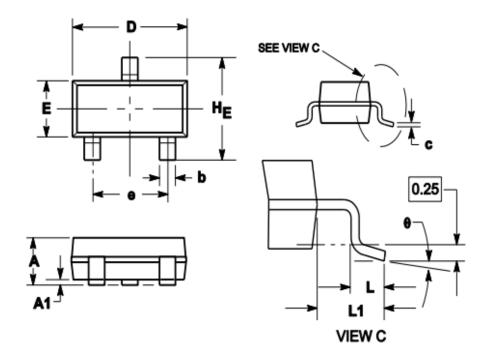




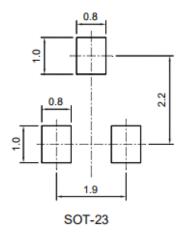


Package Outline

SOT-23



Symbol	Dimensions in millimeter					
	Min.	Тур.	Max.			
Α	0.900	1.025	1.150			
A1	0.000	0.050	0.100			
b	0.300	0.400	0.500			
С	0.080	0.115	0.150			
D	2.800	2.900	3.000			
E	1.200	1.300	1.400			
HE	2.250	2.400	2.550			
e	1.800	1.900	2.000			
L1	0.550REF					
L	0.300		0.500			
θ	0°		8°			



Recommended soldering pad

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