

PNP general purpose Transistor

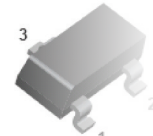
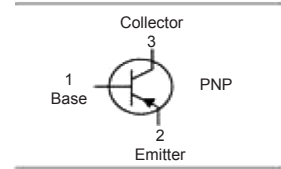


Features:

- Low current.(max.100mA)
- Low voltage.(max.65v)

Applications:

- General purpose switching and amplification



SOT-23

Maximum Ratings: @T_A = 25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-80	V
Collector-Emitter Voltage	V _{CEO}	-65	
Emitter-Base Voltage	V _{EBO}	-5	
Collector Current -Continuous	I _C	-0.1	A
Collector Dissipation	P _C	250	mW
Junction and Storage Temperature	T _j , T _{stg}	-65 to 150	°C

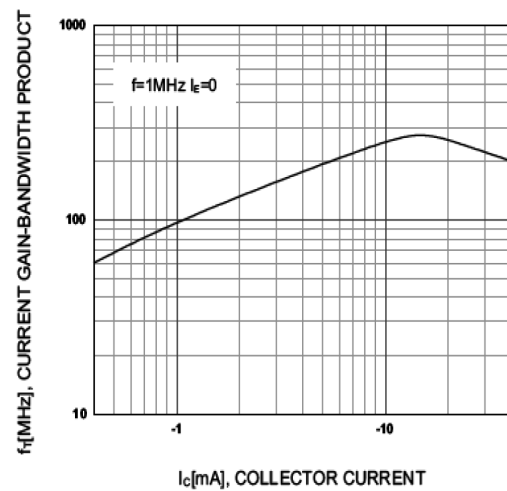
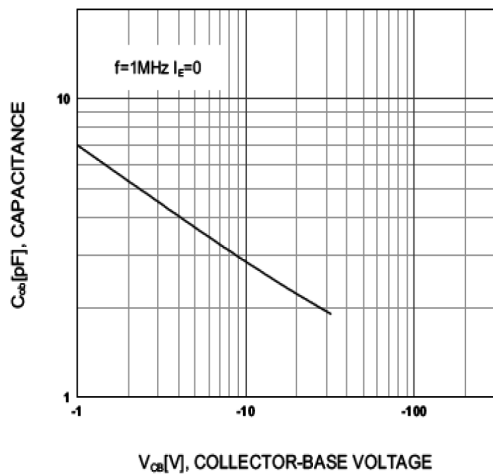
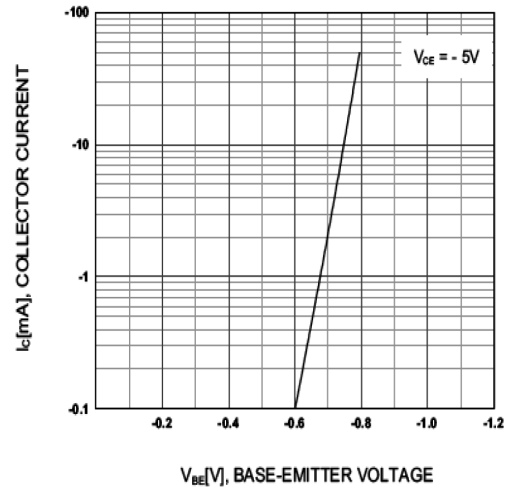
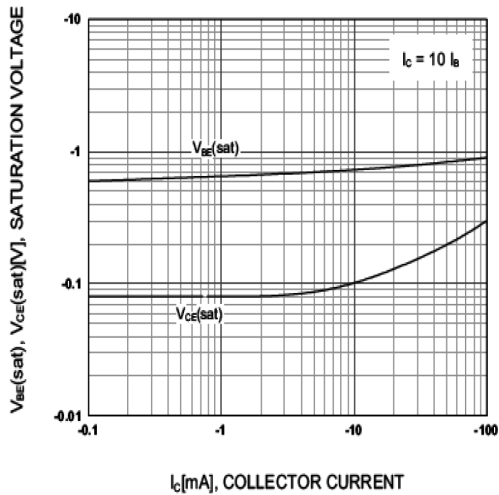
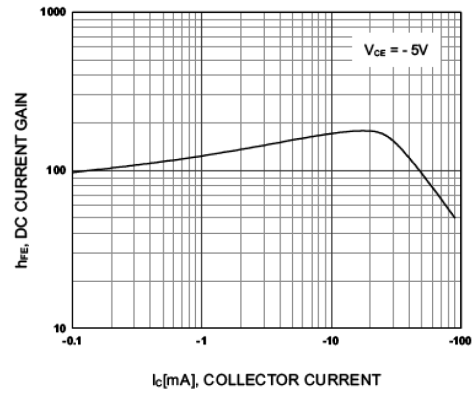
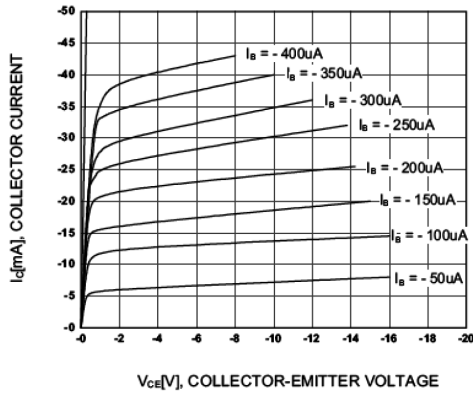
Electrical Characteristics: @T_A = 25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -10μA, I _E = 0	-80	-	-	V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -10mA, I _B = 0	-65	-	-	
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -1μA, I _C = 0	-5	-	-	
Collector cut-off current	I _{CBO}	V _{CB} = -30V, I _E = 0	-	-1	-15	nA
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _C = 0	-	-	-01	μA
DC current gain	h _{FE}	V _{CE} = -5V, I _C = -2mA	125	-	250	-
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -100mA, I _B = -5mA I _C = -10mA, I _B = -0.5mA	-	-	-0.65 -0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = -100mA, I _B = -5mA	-	-	-1.1	
collector capacitance	C _c	V _{CB} = -10V, I _E =I _e = 0 f = 1MHz	-	4.5	-	pF
Transition frequency	f _T	V _{CE} = -5V, I _C = -10mA f = 100MHz	100	-	-	MHz

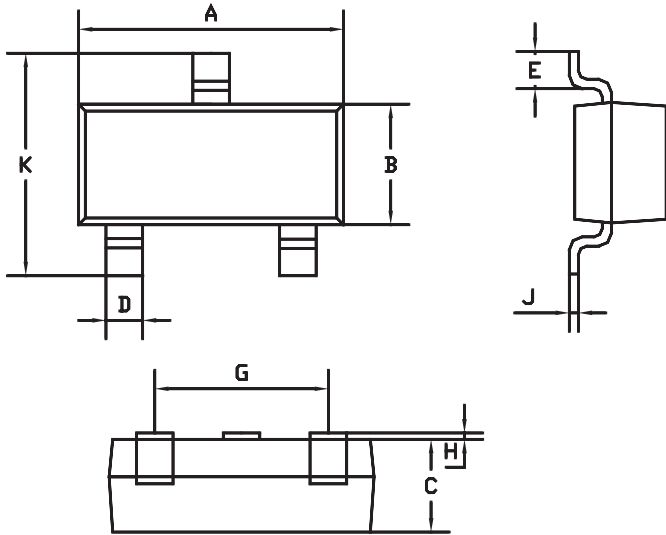
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Typical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified



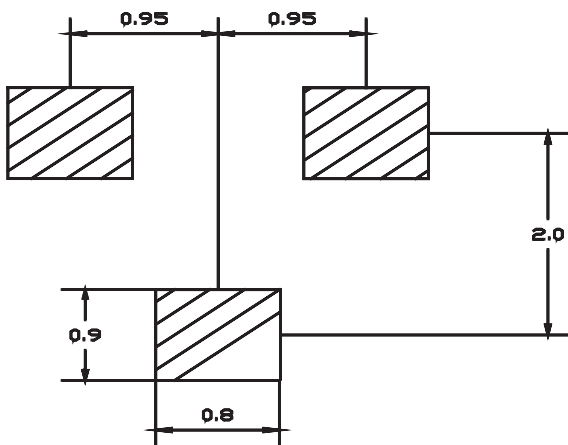
Package Outline:



SOT-23		
Dimension	Min	Max
A	2.85	2.95
B	1.25	1.35
C	1 Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
H	0.02	0.1
J	0.1 Typical	
K	2.35	2.45

Dimensions : Millimetres

Soldering Footprint:



Dimensions : Millimetres

Part Number Table

Description	Part Number
PNP general purpose Transistor	BC856A-7-F

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