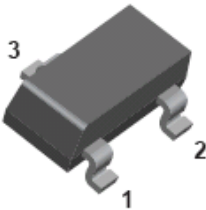
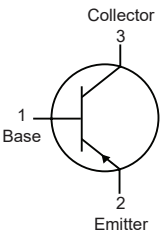
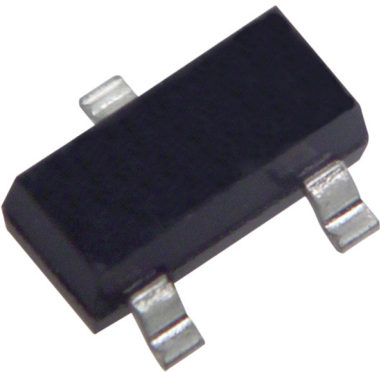


PNP General Purpose Amplifier

multicomp^{PRO}

RoHS
Compliant



SOT-23

Features:

- Low current (100mA Max.)
- Low voltage (65V Max.)

Applications:

- General purpose switching and amplification

Maximum Rating at 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

PNP General Purpose Amplifier **multicomp**PRO

Electrical Characteristics at $T_a=25^\circ\text{C}$ unless otherwise specified:

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=-10\mu\text{A}, I_E=0$	-80			V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-10\text{mA}, I_B=0$	-65			
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=-1\mu\text{A}, I_C=0$	-5			
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-30\text{V}, I_E=0$		-1	-1.5	nA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-5\text{V}, I_C=0$			-0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=-5\text{V}, I_C=-2\text{mA}$	125		250	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-100\text{mA}, I_B=-5\text{mA}$ $I_C=-10\text{mA}, I_B=-0.5\text{mA}$			-0.65 -0.3	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-100\text{mA}, I_B=-5\text{mA}$			-1.1	
Collector Capacitance	C_C	$V_{CB}=-10\text{V}, I_E=I_C=0$ $f=1\text{MHz}$		4.5		pF
Transition Frequency	f_T	$V_{CE}=-5\text{V}, I_C=-10\text{mA}$ $f=100\text{MHz}$	100			MHz

Typical Characteristics at $T_a=25^\circ\text{C}$ unless otherwise specified:

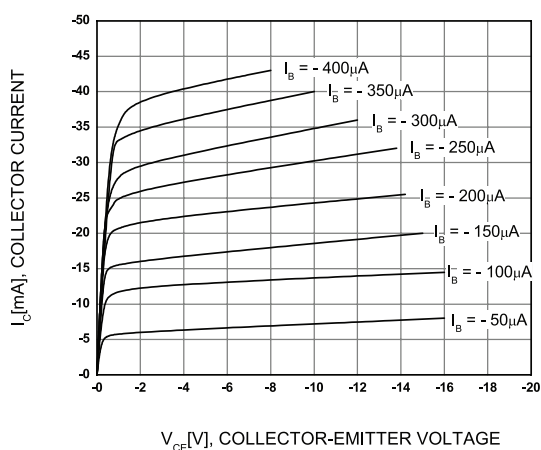


Figure 1. Static Characteristic

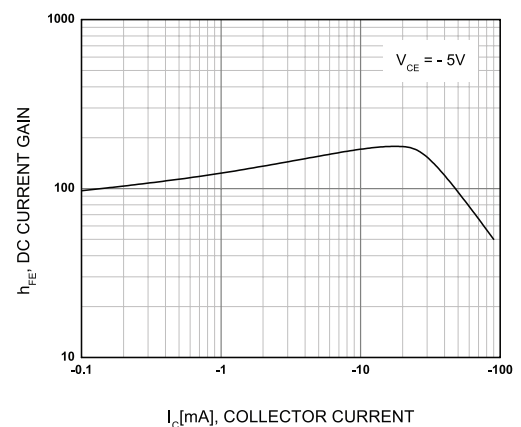


Figure 2. DC current Gain

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Typical Characteristics at $T_a = 25^\circ\text{C}$ unless otherwise specified:

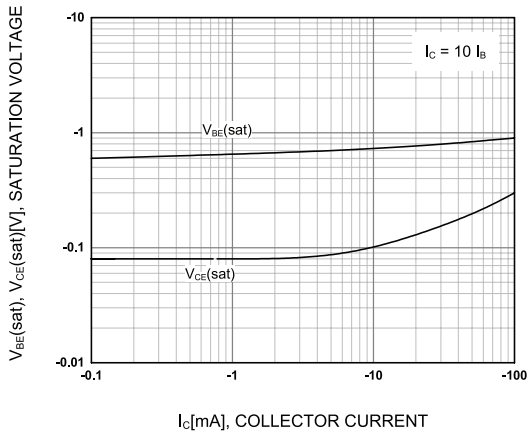


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

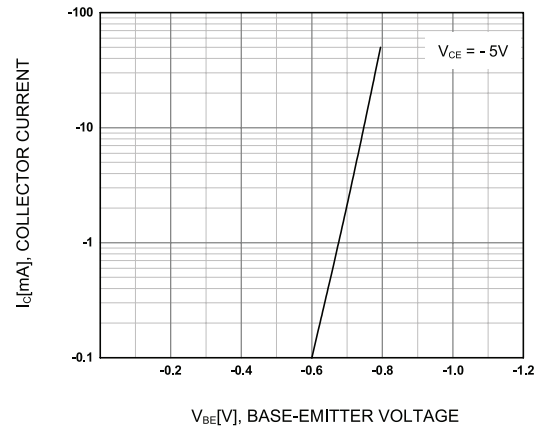


Figure 4. Base-Emitter On Voltage

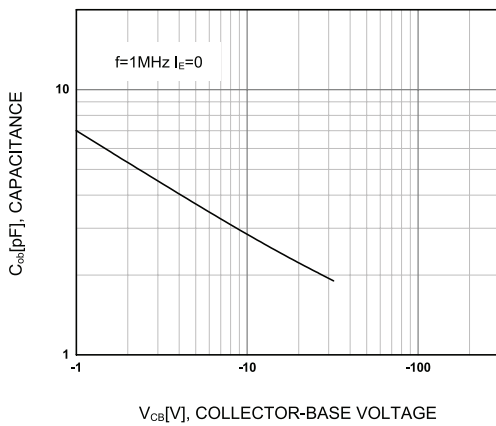


Figure 5. Collector Output Capacitance

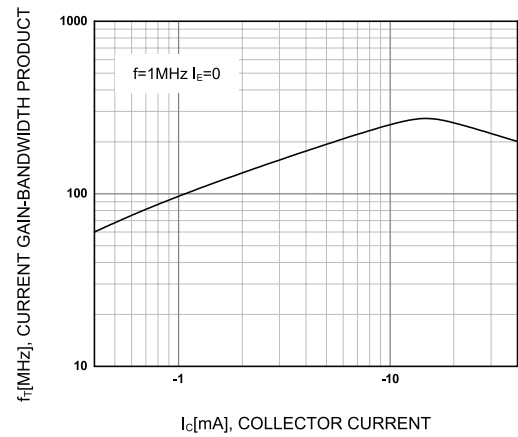
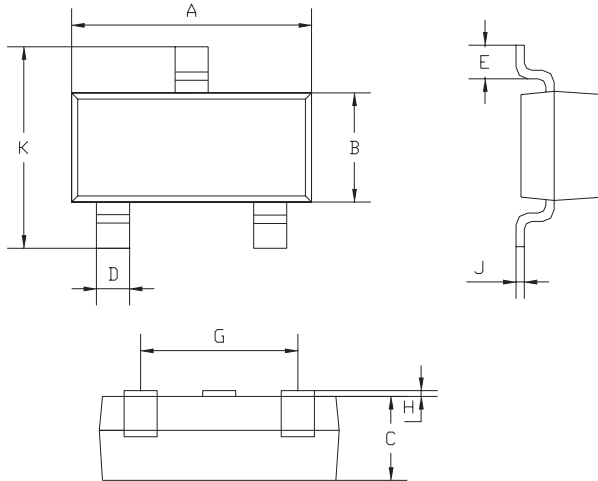


Figure 6. Current Gain Bandwidth Product

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Package Outline:

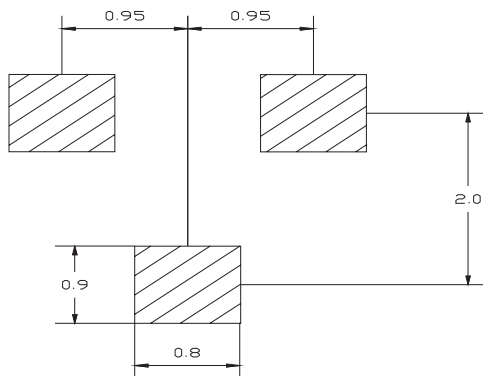
Plastic surface mounted package



SOT-23		
Dim.	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
Transistor, PNP, -80, 100mA, SOT-23	BC856A-7-F

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