

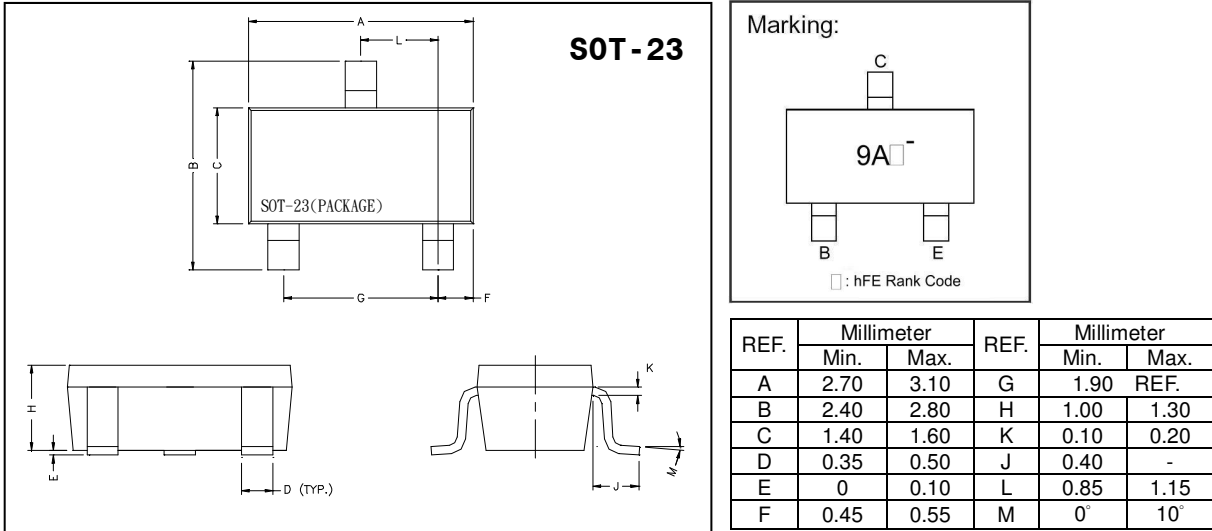
## GBC856

### PNP EPITAXIAL PLANAR TRANSISTOR

#### Description

The GBC856 is designed for switching and AF amplifier application, suitable for automatic insertion in thick and thin-film circuits.

#### Package Dimensions



#### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	T <sub>j</sub>	+150	°C
Storage Temperature	T <sub>stg</sub>	-55 ~ +150	°C
Collector to Base Voltage	V <sub>CB0</sub>	-80	V
Collector to Emitter Voltage	V <sub>CE0</sub>	-65	V
Emitter to Base Voltage	V <sub>EBO</sub>	-5	V
Collector Current	I <sub>C</sub>	-100	mA
Total Power Dissipation	P <sub>D</sub>	225	mW

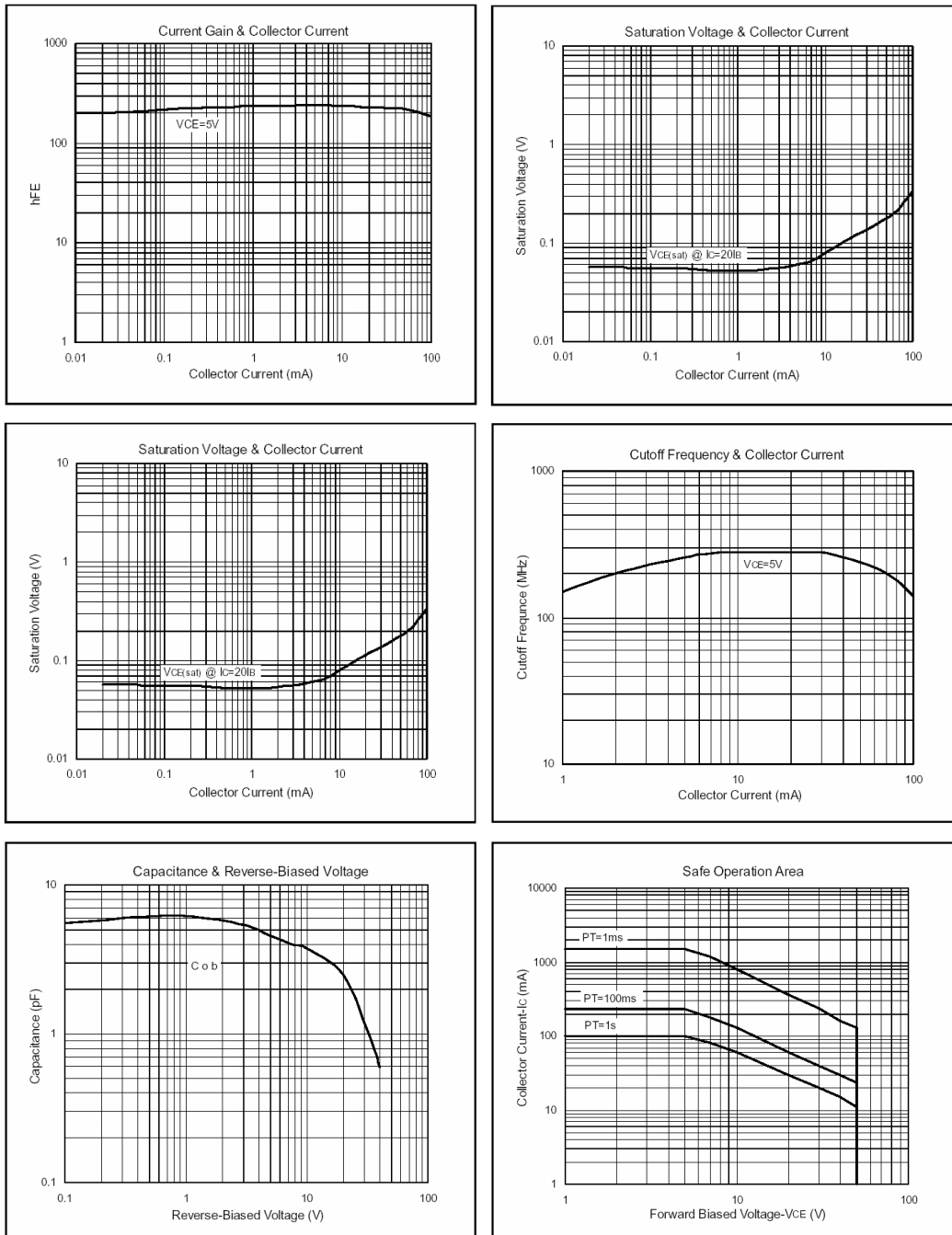
#### Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V <sub>CB0</sub>	-80	-	-	V	I <sub>C</sub> =-100uA
V <sub>CE0</sub>	-65	-	-	V	I <sub>C</sub> =-1mA
V <sub>EBO</sub>	-5	-	-	V	I <sub>E</sub> =-10uA
I <sub>CB0</sub>	-	-	-15	nA	V <sub>CB</sub> =-30V
V <sub>CE(sat)1</sub>	-	-75	-300	mV	I <sub>C</sub> =-10mA, I <sub>B</sub> =-0.5mA
V <sub>CE(sat)2</sub>	-	-250	-650	mV	I <sub>C</sub> =-100mA, I <sub>B</sub> =-5mA
V <sub>BE(sat)1</sub>	-	-700	-	mV	I <sub>C</sub> =-10mA, I <sub>B</sub> =-0.5mA
V <sub>BE(sat)2</sub>	-	-850	-	mV	I <sub>C</sub> =-100mA, I <sub>B</sub> =-5mA
V <sub>BE(on)1</sub>	-600	-	-750	mV	V <sub>CE</sub> =-5V, I <sub>C</sub> =-2mA
V <sub>BE(on)2</sub>	-	-	-820	mV	V <sub>CE</sub> =-5V, I <sub>C</sub> =-10mA
h <sub>FE</sub>	75	-	800		V <sub>CE</sub> =-5V, I <sub>C</sub> =-2mA
f <sub>T</sub>	-	150	-	MHz	V <sub>CE</sub> =-5V, I <sub>C</sub> =-10mA
C <sub>ob</sub>	-	4.5	-	pF	V <sub>CB</sub> =-10V, f=1MHz

## Classification Of hFE

Rank	A	B	C	Normal
hFE	125-250	220-475	420-800	75-475

## Characteristics Curve



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