

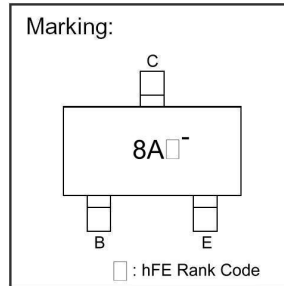
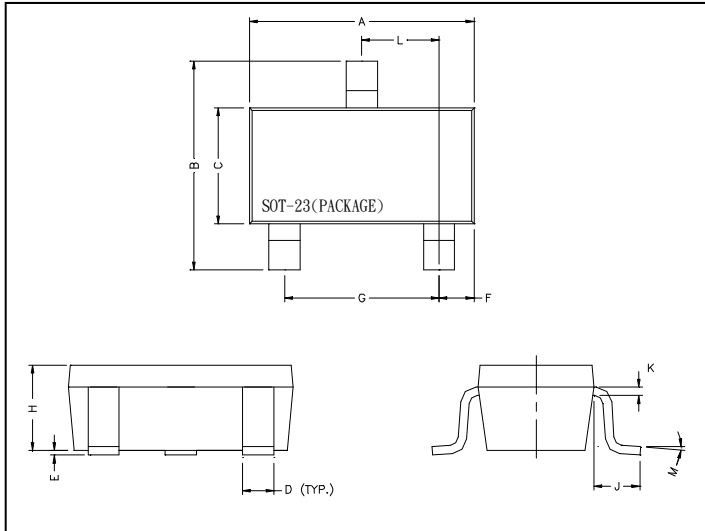
GBC846

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The GBC846 is designed for switching and AF amplifier application, suitable for automatic insertion in thick and thin-film circuits.

Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	1.90	REF.
B	2.40	2.80	H	1.00	1.30
C	1.40	1.60	K	0.10	0.20
D	0.35	0.50	J	0.40	-
E	0	0.10	L	0.85	1.15
F	0.45	0.55	M	0°	10°

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	T _j	+150	°C
Storage Temperature	T _{stg}	-55 ~ +150	°C
Collector to Base Voltage	V _{CB0}	80	V
Collector to Emitter Voltage	V _{CEO}	65	V
Emitter to Base Voltage	V _{EB0}	6	V
Collector Current	I _C	100	mA
Total Power Dissipation	P _D	250	mW

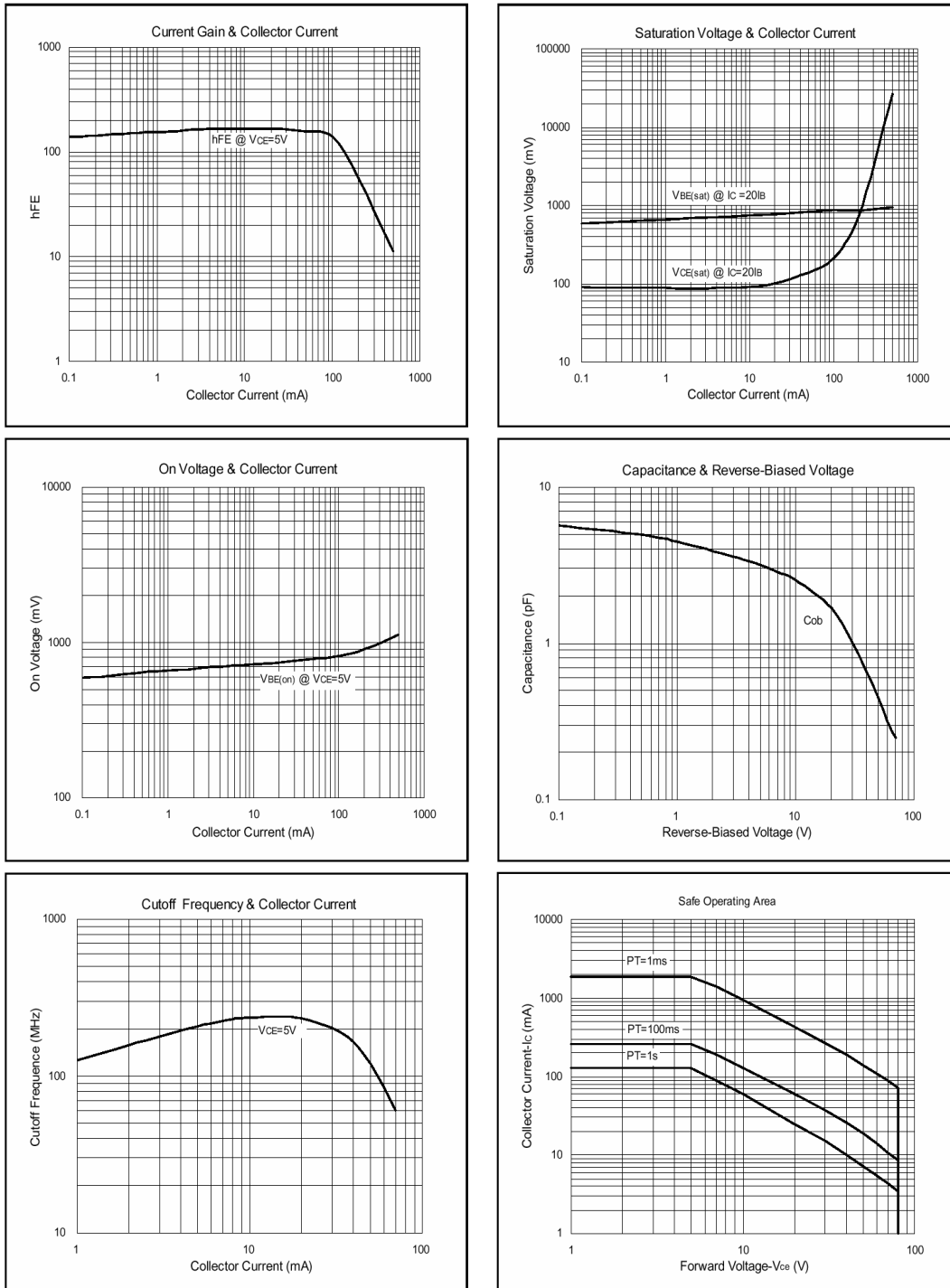
Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V _{CB0}	80	-	-	V	I _C =100μA
V _{CEO}	65	-	-	V	I _C =1mA
V _{EB0}	6	-	-	V	I _E =10μA
I _{CB0}	-	-	15	nA	V _{CB} =30V
V _{CE(sat)1}	-	90	250	mV	I _C =10mA, I _B =0.5mA
V _{CE(sat)2}	-	200	600	mV	I _C =100mA, I _B =5mA
V _{BE(sat)1}	-	700	-	mV	I _C =10mA, I _B =0.5mA
V _{BE(sat)2}	-	900	-	mV	I _C =100mA, I _B =5mA
V _{BE(on)1}	580	-	700	mV	V _{CE} =5V, I _C =2mA
V _{BE(on)2}	-	-	770	mV	V _{CE} =5V, I _C =10mA
h _{FE}	110	-	800		V _{CE} =5V, I _C =2mA
f _T	-	300	-	MHz	V _{CE} =5V, I _C =10mA
C _{ob}	-	3.5	6	pF	V _{CB} =10V, f=1MHz, I _E =0A

Classification Of hFE

Rank	A	B	C
hFE	110-220	200-450	420-800

Characteristics Curve



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