

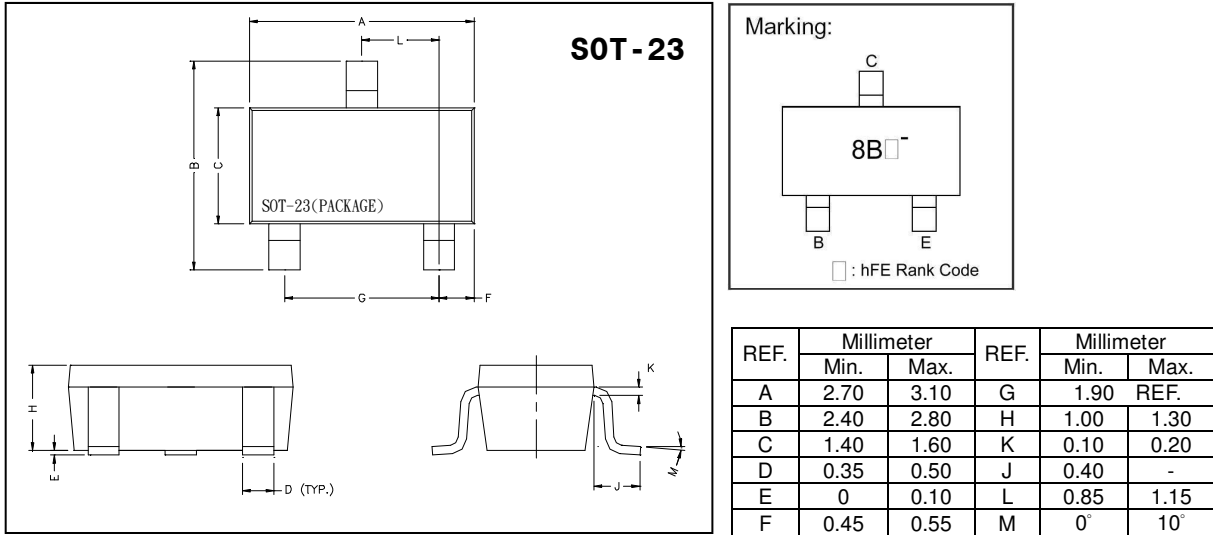
GBC847

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The GBC847 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 _j	+150	°C
Storage Temperature	T _{stg}	-55 ~ +150	°C
Collector to Base Voltage	V _{CB0}	50	V
Collector to Emitter Voltage	V _{CEO}	45	V
Emitter to Base Voltage	V _{EBO}	6	V
Collector Current	I _C	100	mA
Total Power Dissipation	P _D	225	mW

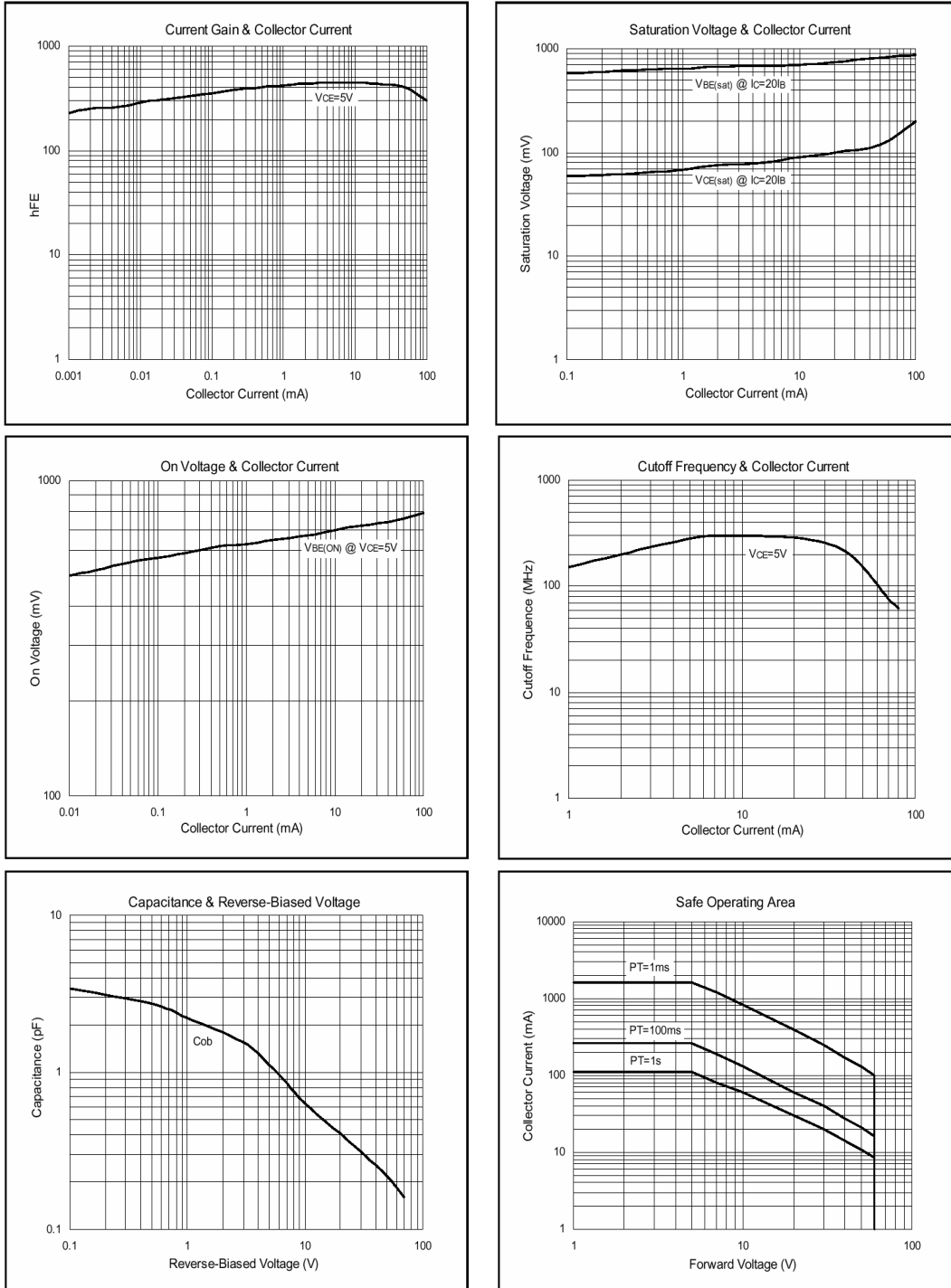
Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V _{CB0}	50	-	-	V	I _C =100μA
V _{CEO}	45	-	-	V	I _C =1mA
V _{EBO}	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	450-800

Characteristics Curve



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Head Office And Factory:

• **Taiwan:** No. 17-1 Tatung Rd. Fu Kou Hsin-Chu Industrial Park, Hsin-Chu, Taiwan, R. O. C.
 TEL : 886-3-597-7061 FAX : 886-3-597-9220, 597-0785
 • **China:** (201203) No.255, Jang-Jiang Tsai-Lueng RD. , Pu-Dung-Hsin District, Shang-Hai City, China
 TEL : 86-21-5895-7671 ~ 4 FAX : 86-21-38950165