

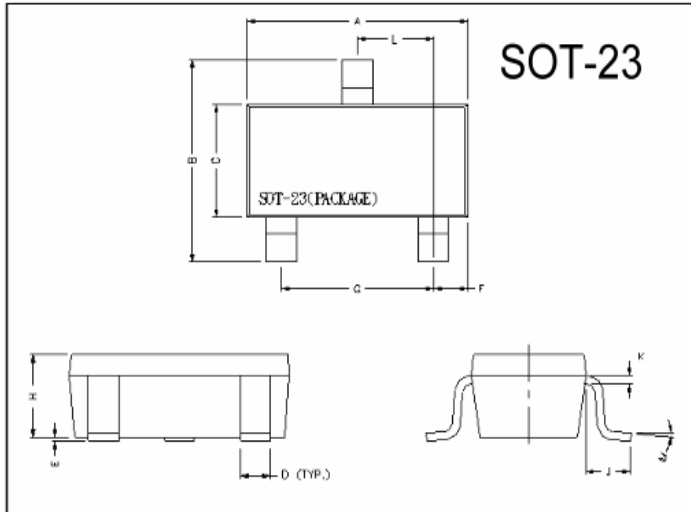
GMBT5089

NPN EPITAXIAL PLANAR TRANSISTOR

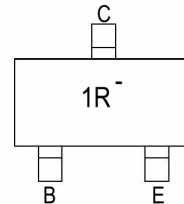
Description

The GMBT5089 is designed for low noise, high gain, general purpose amplifier applications.

Package Dimensions



Marking:



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

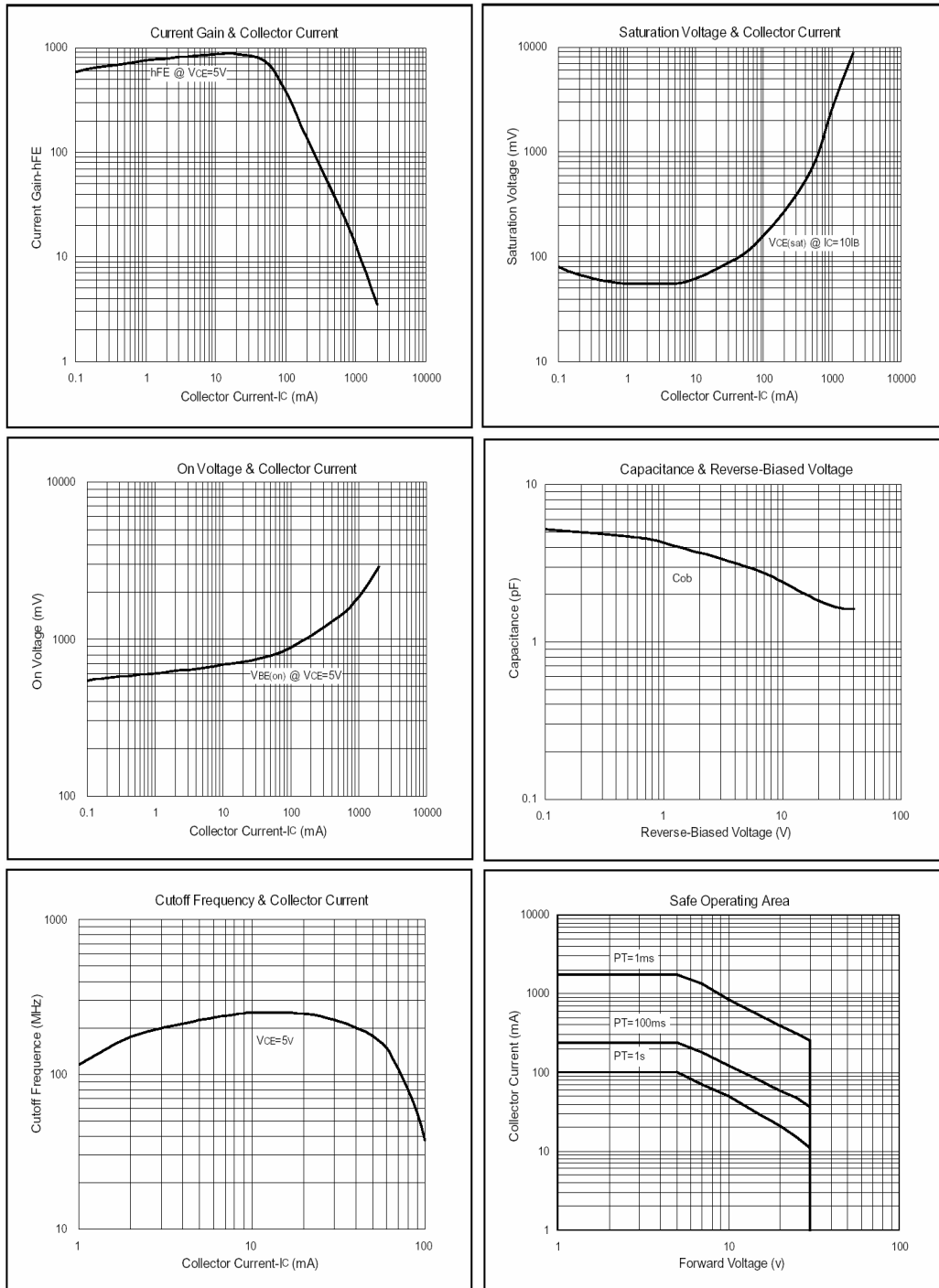
Parameter	Symbol	Ratings	Unit
Junction Temperature	T _j	+150	°C
Storage Temperature	T _{stg}	-55 ~ +150	°C
Collector to Base Voltage	V _{CB0}	30	V
Collector to Emitter Voltage	V _{CEO}	25	V
Emitter to Base Voltage	V _{EB0}	4.5	V
Collector Current	I _C	50	mA
Total Power Dissipation	P _D	225	mW

Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	30	-	-	V	I _C =100uA
BVCEO	25	-	-	V	I _C =1mA
BVEBO	4.5	-	-	V	I _E =10uA
ICBO	-	-	50	nA	V _{CB} =15V
IEBO	-	-	100	nA	V _{EB} =4.5V
*VCE(sat)	-	-	500	mV	I _C =10mA, I _B =1mA
*VBE(sat)	-	-	800	mV	I _C =10mA, I _B =1mA
hFE1	400	-	1200		VCE=5V, IC=0.1mA
hFE2	450	-			VCE=5V, IC=1mA
hFE3	400	-	-		VCE=5V, IC=10mA
fT	50		-	MHz	VCE=5V, IC=0.5mA, f=20MHz
Cob	-	-	4	pF	VCB=5V, f=1MHz

*Pulse Test:Pulse Width <=380us, Duty Cycle <=2%

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 FAX : 86-21-38950165