

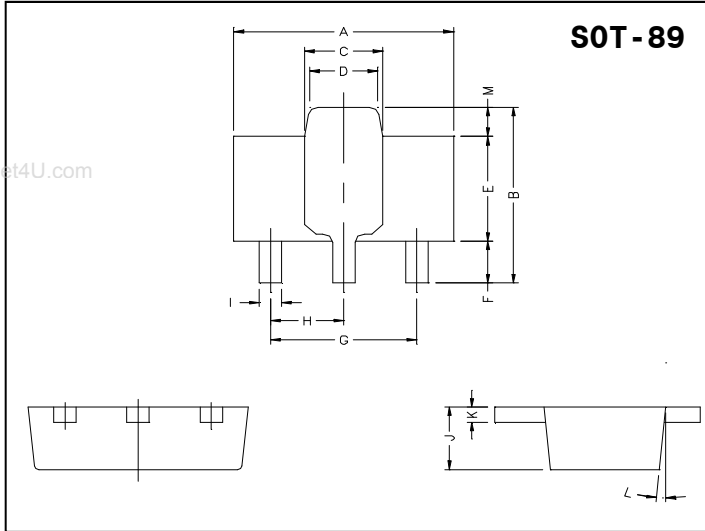
## GM8050

### NPN EPITAXIAL TRANSISTOR

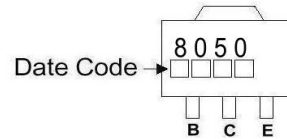
#### Description

The GM8050 is designed for general purpose amplifier applications.

#### Package Dimensions



#### Marking :



	Millimeter			Millimeter	
	Min.	Max.		Min.	Max.
A	4.4	4.6	G	3.00	REF.
B	4.05	4.25	H	1.50	REF.
C	1.50	1.70	I	0.40	0.52
D	1.30	1.50	J	1.40	1.60
E	2.40	2.60	K	0.35	0.41
F	0.89	1.20	L	5° TYP.	
			M	0.70 REF.	

#### 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>CBO</sub>	40	V
Collector to Emitter Voltage	V <sub>CEO</sub>	25	V
Emitter to Base Voltage	V <sub>EBO</sub>	6	V
Collector Current	I <sub>C</sub>	1.5	A
I <sub>B</sub> Base Current	I <sub>B</sub>	0.5	A
Total Power Dissipation	P <sub>D</sub>	1	W

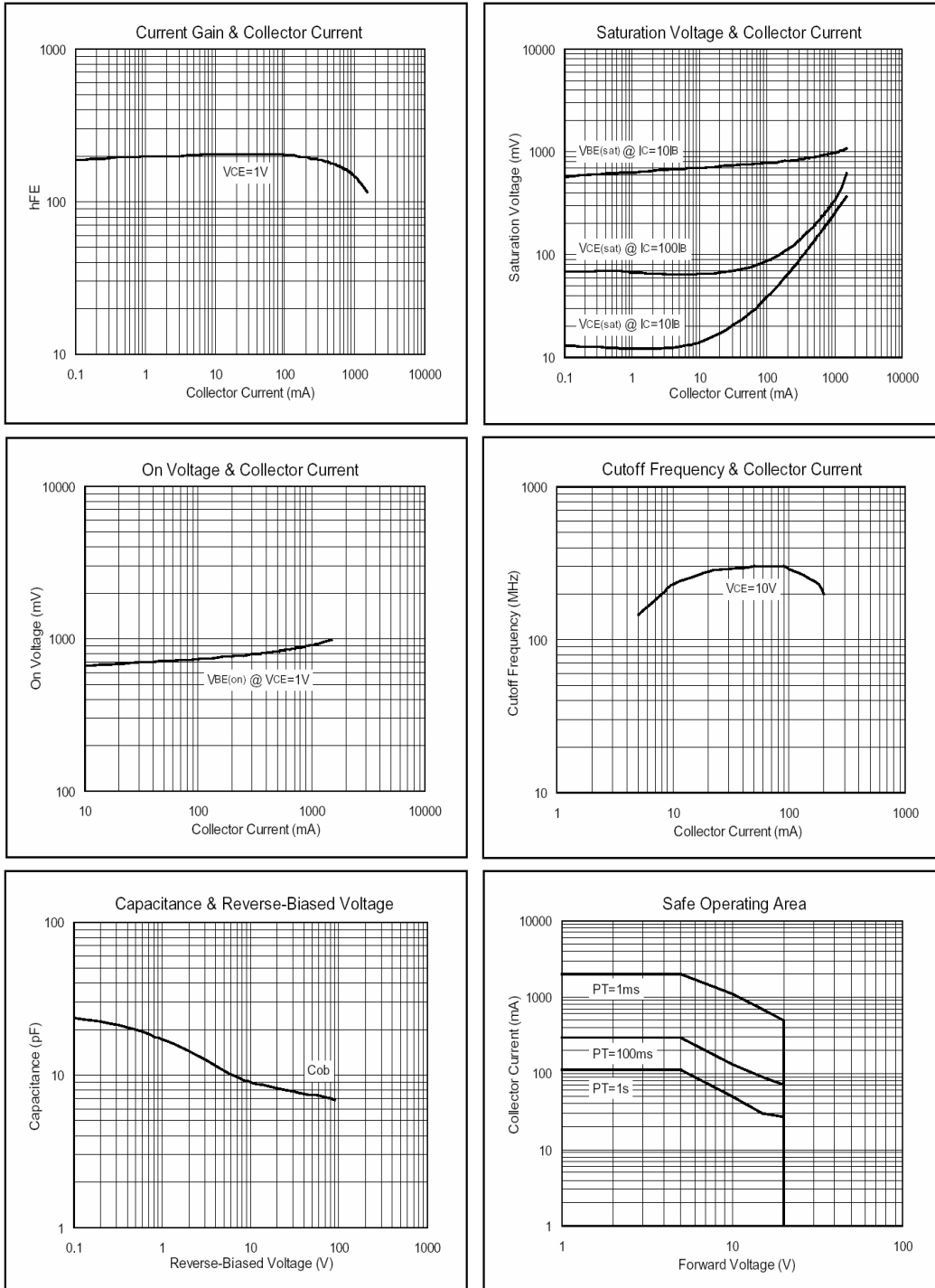
#### Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V <sub>CBO</sub>	40	-	-	V	I <sub>C</sub> =100uA
V <sub>CEO</sub>	25	-	-	V	I <sub>C</sub> =2mA
V <sub>EBO</sub>	6	-	-	V	I <sub>E</sub> =100uA
I <sub>CBO</sub>	-	-	100	nA	V <sub>CB</sub> =35V
I <sub>EBO</sub>	-	-	100	nA	V <sub>EB</sub> =6V
V <sub>CE(sat)</sub>	-	-	0.5	V	I <sub>C</sub> =0.8A, I <sub>B</sub> =80mA
V <sub>BE(sat)</sub>	-	-	1.2	V	I <sub>C</sub> =0.8A, I <sub>B</sub> =80mA
V <sub>BE(on)</sub>	-	-	1	V	V <sub>CE</sub> =1V, I <sub>C</sub> =10mA
H <sub>fe1</sub>	45	-	-		V <sub>CE</sub> =1V, I <sub>C</sub> =5mA
H <sub>fe2</sub>	120	-	500		V <sub>CE</sub> =1V, I <sub>C</sub> =100mA
H <sub>fe3</sub>	40	-	-		V <sub>CE</sub> =1V, I <sub>C</sub> =800mA
f <sub>T</sub>	100	-	-	MHz	V <sub>CE</sub> =10V, I <sub>C</sub> =50mA

#### Classification Of hFE

Rank	C	D	E
hFE	120-200	160 - 300	250 - 500

## Characteristics Curve



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