

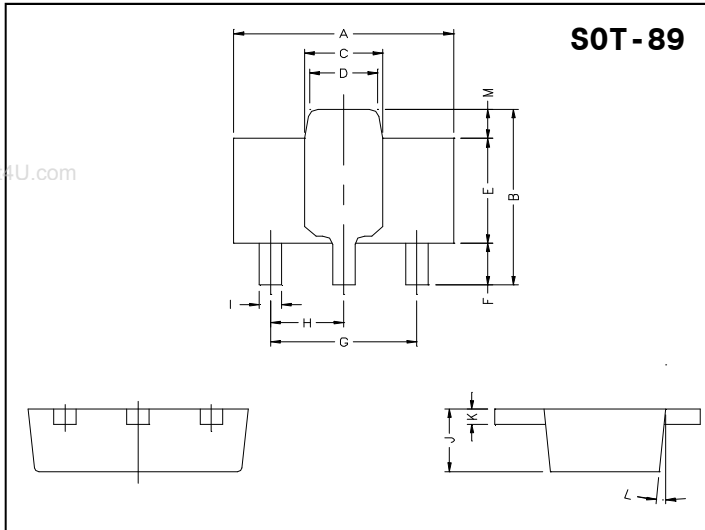
## GM8550

PNP EPITAXIAL TRANSISTOR

### Description

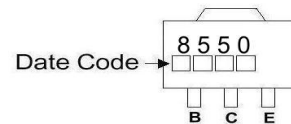
The GM8550 is designed for use in 1W output amplifier of portable radios in class B push-pull operation.

### Package Dimensions



**SOT - 89**

**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	BVCBO	-40	V
Collector to Emitter Voltage	BVCEO	-25	V
Emitter to Base Voltage	BVEBO	-6	V
Collector Current	I <sub>C</sub>	-1.5	A
Base Current	I <sub>B</sub>	-0.5	A
Total Power Dissipation	PD	1	W

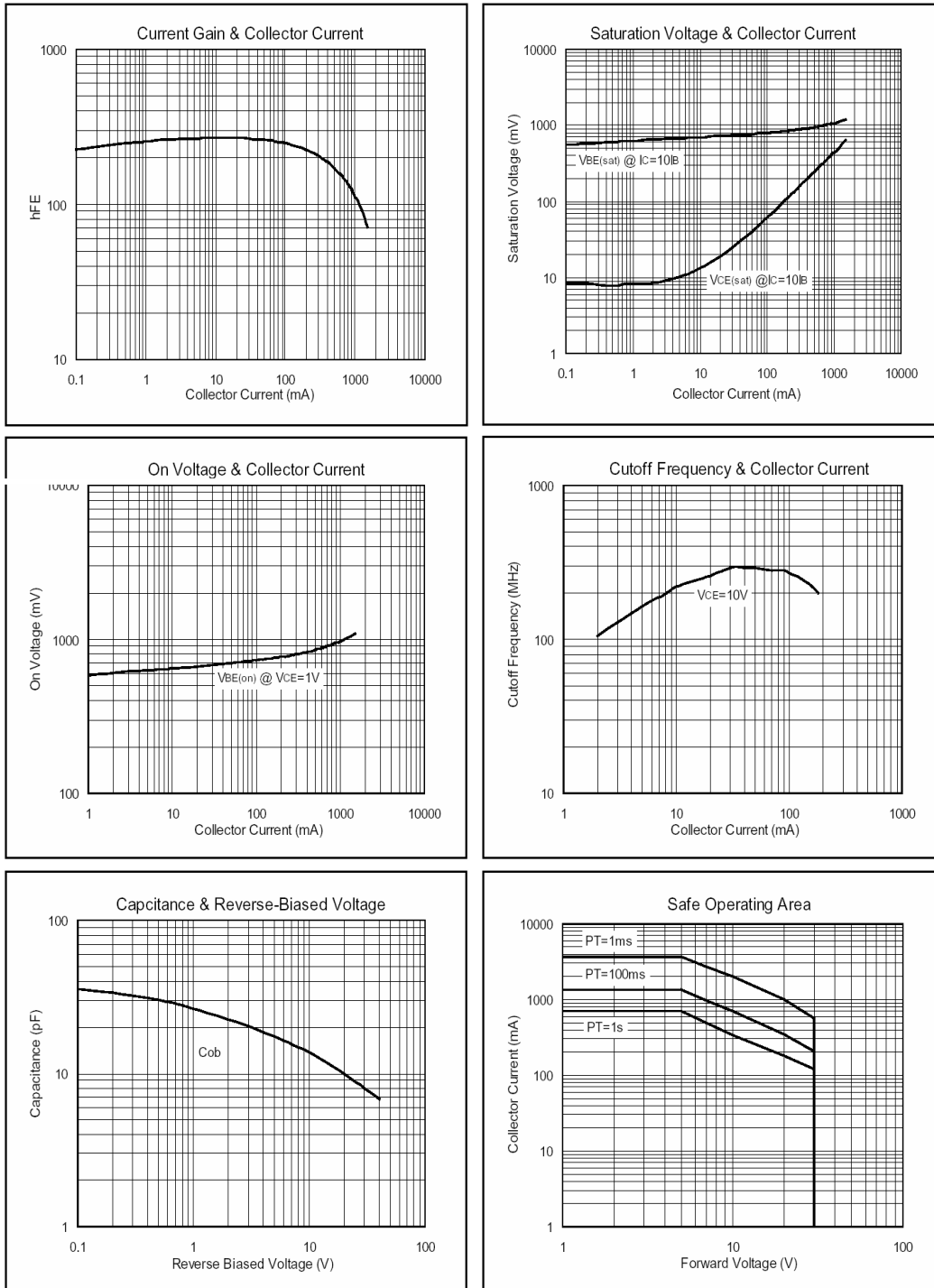
### Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-40	-	-	V	I <sub>C</sub> =-100uA
BVCEO	-25	-	-	V	I <sub>C</sub> =-2mA
BVEBO	-6	-	-	V	I <sub>E</sub> =-100uA
ICBO	-	-	-100	nA	V <sub>CB</sub> =-35V
IEBO	-	-	-100	nA	V <sub>EB</sub> =-6V
VCE(sat)	-	-	-0.5	V	I <sub>C</sub> =-0.8A, I <sub>B</sub> =-80mA
VBE(sat)	-	-	-1.2	V	I <sub>C</sub> =-0.8A, I <sub>B</sub> =-80mA
VBE(on)	-	-	-1	V	V <sub>CE</sub> =-1V, I <sub>C</sub> =-10mA
hfe1	45	-	-		V <sub>CE</sub> =-1V, I <sub>C</sub> =-5mA
hfe2	120	-	500		V <sub>CE</sub> =-1V, I <sub>C</sub> =-100mA
hfe3	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> =-20mA, f=100MHz

### Classification Of hFE

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

## Characteristics Curve



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