

GMBCX53 PNP SILICON EPITAXIAL TRANSISTOR

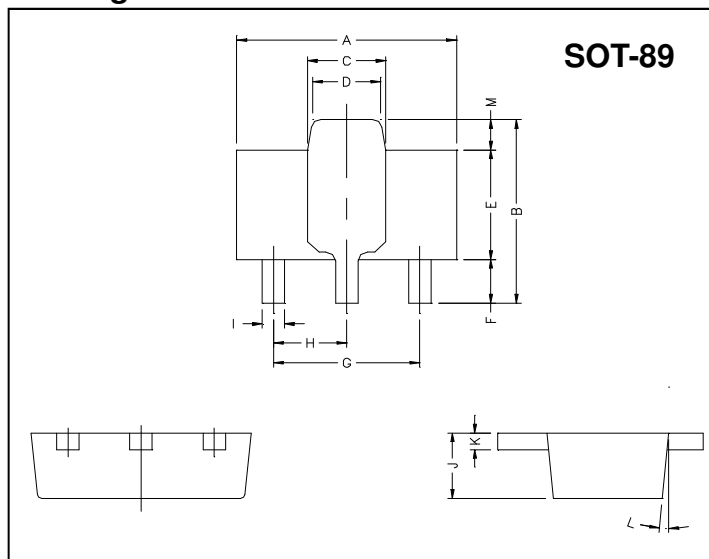
Description

The GMBCX53 is designed for use in driver stages of audio amplifiers and medium power general purpose amplification.

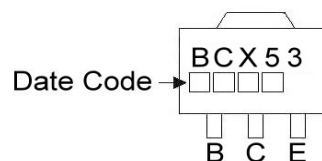
Features

- Collector-Emitter Voltage: $V_{CE0}=-80V$
- Complementary to GMBCP56

Package Dimensions



Marking :



REF.	Millimeter		REF.	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 $T_a = 25^{\circ}C$

Parameter	Symbol	Ratings	Unit
Junction Temperature	T_j	+150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-65 ~ +150	$^{\circ}C$
Collector to Base Voltage	V_{CBO}	-100	V
Collector to Emitter Voltage	V_{CEO}	-80	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collect Current(DC)	I_C	1	A
Total Power Dissipation	P_D	1.2	W

Electrical Characteristics ($T_a = 25^{\circ}C$)

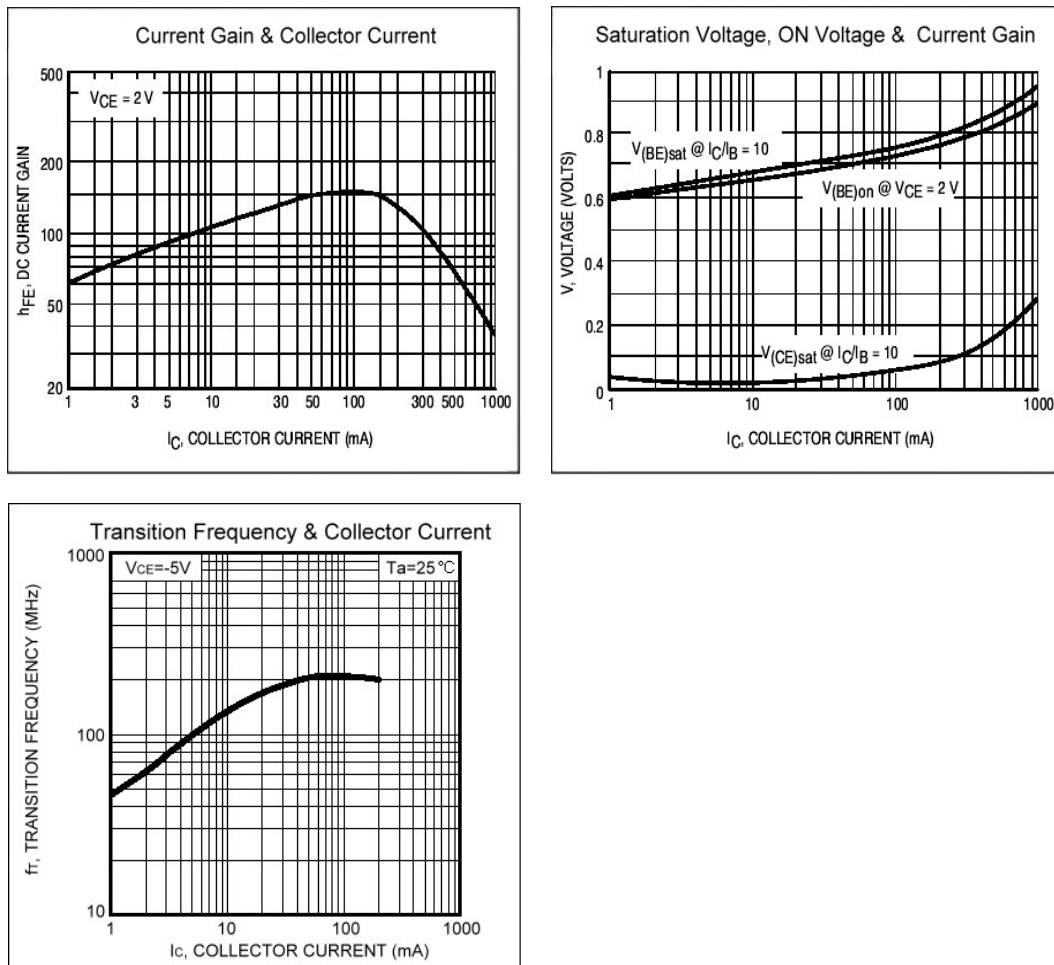
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
B_{VCBO}	-100	-	-	V	$I_C=-100\mu A, I_E=0$
B_{VCEO}	-80	-	-	V	$I_C=-1mA, I_B=0$
B_{VEBO}	-5	-	-	V	$I_E=-10\mu A, I_C=0$
I_{CBO}	-	-	-100	nA	$V_{CB}=-30V, I_E=0$
I_{EBO}	-	-	-100	nA	$V_{EB}=-5V, I_C=0$
* $V_{CE(sat)1}$	-	-	-500	mV	$I_C=-500mA, I_B=-50mA$
* $V_{BE(on)}$	-	-	-1000	mV	$I_C=-500mA, V_{CE}=-2V,$
* h_{FE1}	63	-	-		$V_{CE}=-2V, I_C=-5mA$
* h_{FE2}	63	-	250		$V_{CE}=-2V, I_C=-150mA$
* h_{FE3}	40	-	-		$V_{CE}=-2V, I_C=-500mA$
f_T	100	-	-	MHz	$V_{CE}=-5V, I_C=-10mA, f=100MHz$

* Pulse Test: Pulse Width $\leq 380\mu s$, Duty Cycle $\leq 2\%$

Classification Of h_{FE2}

Rank	A	B
Range	63 - 160	100 - 250

Characteristics Curve

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