

# GLBCX53 PNP SILICON EPITAXIAL TRANSISTOR

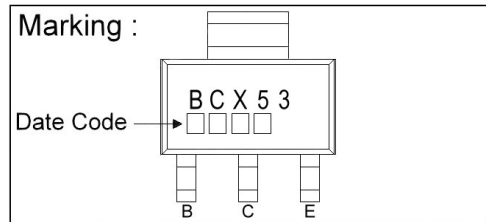
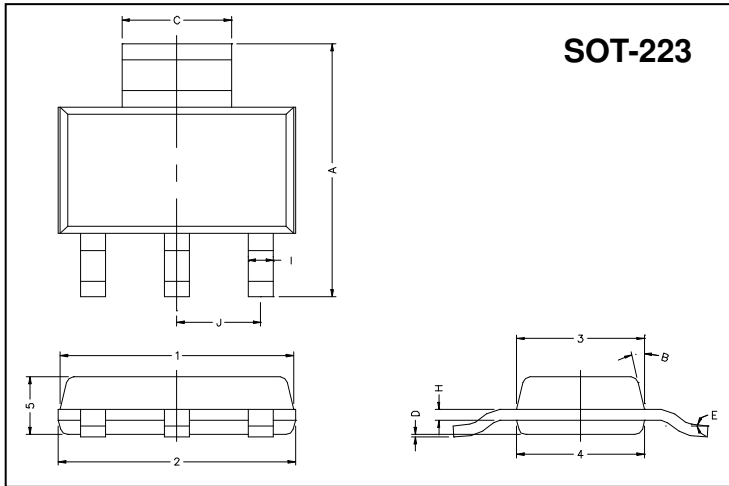
## Description

The GLBCX53 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 GLBCP56

## Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.70	7.30	B	13°TYP.	
C	2.90	3.10	J	2.30 REF.	
D	0.02	0.10	1	6.30	6.70
E	0°	10°	2	6.30	6.70
I	0.60	0.80	3	3.30	3.70
H	0.25	0.35	4	3.30	3.70
			5	1.40	1.80

## 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	$P_D$	1.5	W

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

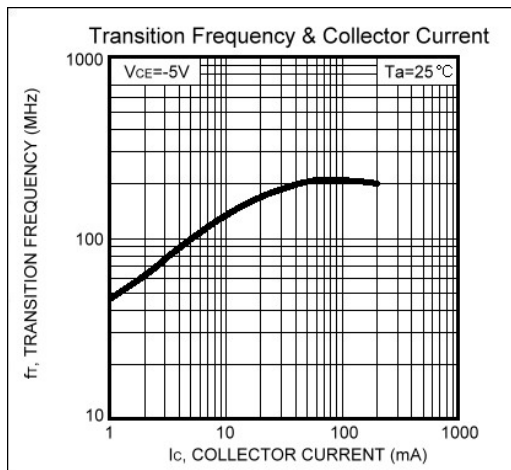
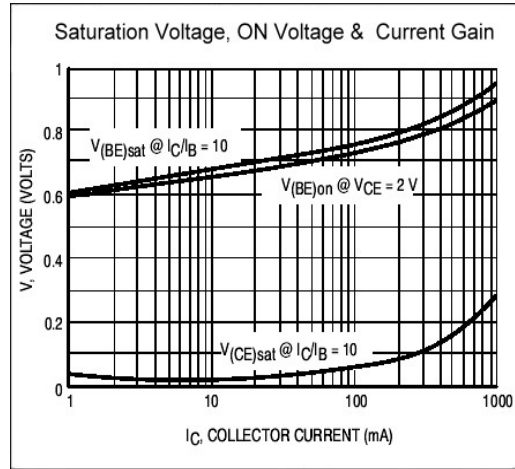
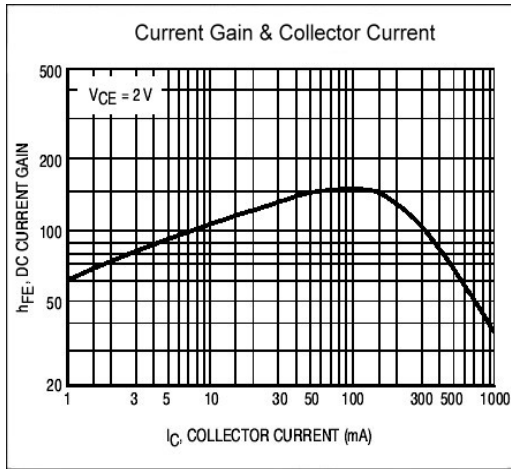
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
$V_{CBO}$	-100	-	-	V	$I_C=-100\mu A, I_E=0$
$V_{CEO}$	-80	-	-	V	$I_C=-1mA, I_B=0$
$V_{EBO}$	-5	-	-	V	$I_E=-10\mu A, I_C=0$
$I_{CBO}$	-	-	-100	nA	$V_{CB}=-30V, I_E=0$
$I_{EBO}$	-	-	-100	nA	$V_{EB}=-5V, I_C=0$
* $V_{CE(sat)1}$	-	-	-500	mV	$I_C=-500mA, I_B=-50mA$
* $V_{BE(on)}$	-	-	-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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**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