# GLBCX53 PNP SILICON EPITAXIAL TRANSISTOR

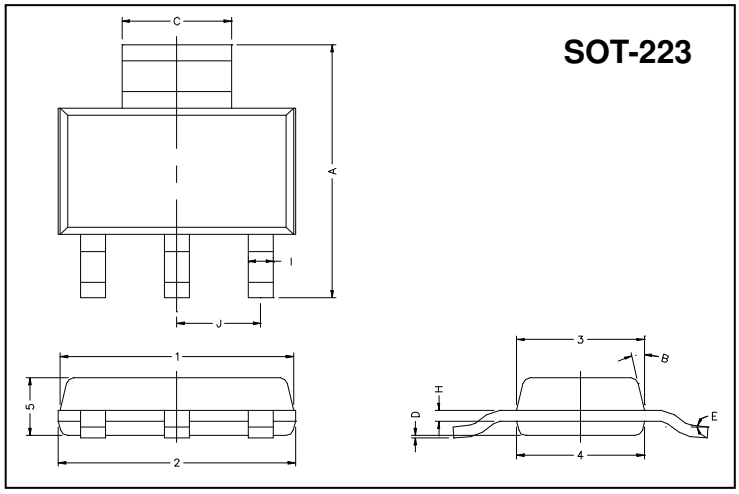
## Description

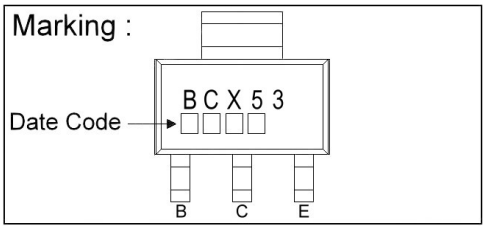
The GLBCX53 is designed for use in driver stages of audio amplifiers and medium power general purpose amplification.

## Features

- Collector-Emitter Voltage: $V_{CEO}$=-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 Ta = 25℃

| Parameter | Symbol | Ratings | Unit |
|---|---|---|---|
| Junction Temperature | Tj | +150 | ℃ |
| Storage Temperature Range | $T_{STG}$ | -65 ~ +150 | ℃ |
| 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 (Ta = 25℃)

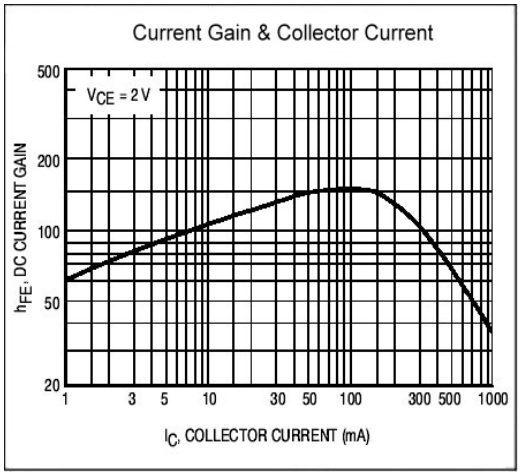
| Symbol | Min. | Typ. | Max. | Unit | Test Conditions |
|---|---|---|---|---|---|
| $BV_{CBO}$ | -100 | - | - | V | $I_C$=-100uA, $I_E$=0 |
| $BV_{CEO}$ | -80 | - | - | V | $I_C$=-1mA, $I_B$=0 |
| $BV_{EBO}$ | -5 | - | - | V | $I_E$=-10uA, $I_C$=0 |
| $I_{CBO}$ | - | - | -100 | nA | $V_{CB}$=-30V, $I_E$=0 |
| $I_{EBO}$ | - | - | -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 |
| fT | 100 | - | - | MHz | $V_{CE}$=-5V, $I_C$=-10mA, f=100MHz |

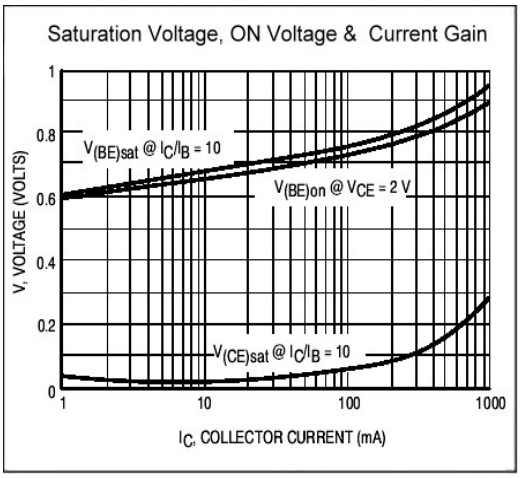
* Pulse Test: Pulse Width≦380μs, Duty Cycle≦2%

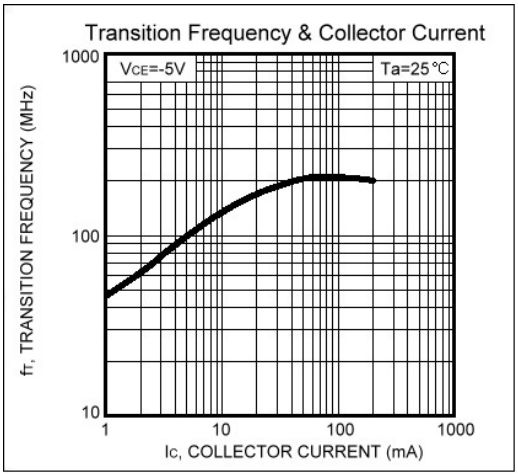
## Classification Of $h_{FE2}$

| Rank | A | B |
|---|---|---|
| Range | 63 - 160 | 100 - 250 |

## Characteristics Curve



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