

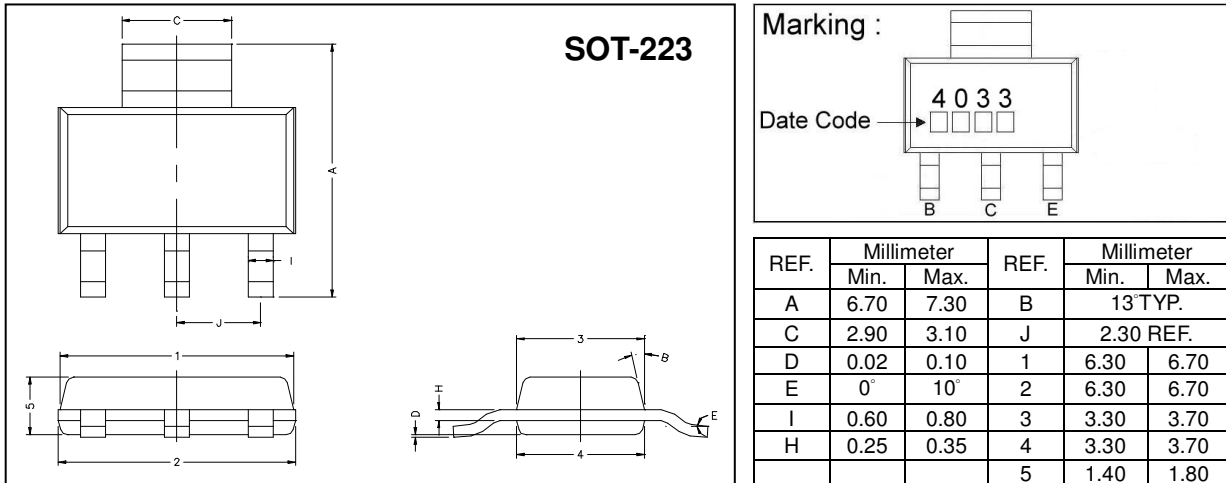
GL4033

PNP EPITAXIAL PLANAR TRANSISTOR

Description

The GL4033 is designed for high current general purpose amplifier applications.

Package Dimensions



Absolute Maximum Ratings (Ta = 25°C, unless otherwise specified)

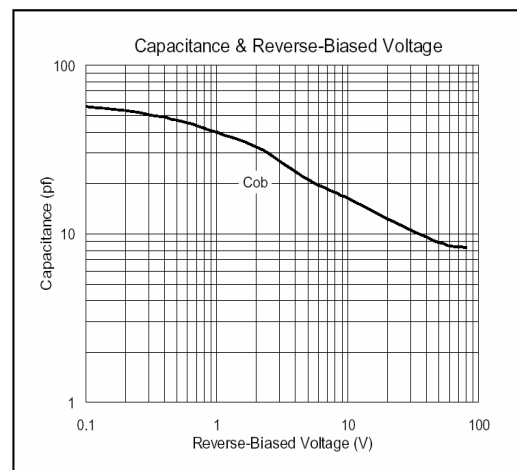
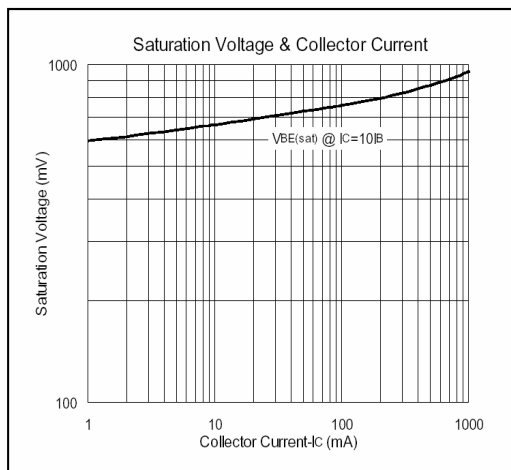
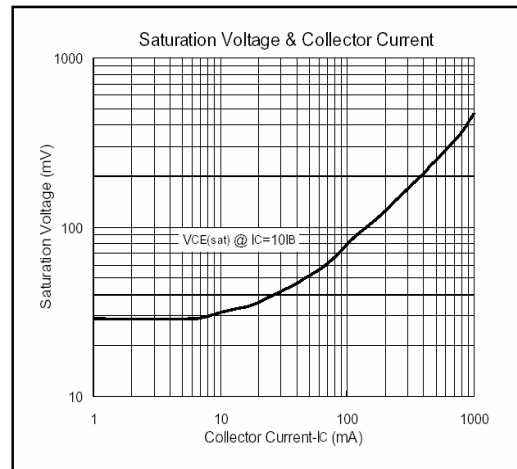
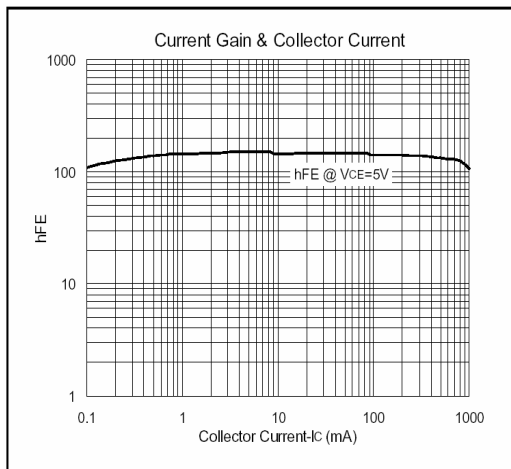
| Parameter | Symbol | Ratings | Unit |
|------------------------------|--------|------------|------|
| Junction Temperature | Tj | +150 | °C |
| Storage Temperature Range | Tstg | -55 ~ +150 | °C |
| Collector to Base Voltage | VCBO | -80 | V |
| Collector to Emitter Voltage | VCEO | -80 | V |
| Emitter to Base Voltage | VEBO | -5 | V |
| Collect Current(DC) | Ic | -1 | A |
| Total Power Dissipation | PD | 2 | W |

Electrical Characteristics (Ta = 25°C, unless otherwise specified)

| Symbol | Min. | Typ. | Max. | Unit | Test Conditions |
|-----------------------|------|------|------|------|--|
| BV _{CB0} | -80 | - | - | V | I _c =-10uA, I _E =0 |
| BV _{CE0} | -80 | - | - | V | I _c =-10mA, I _B =0 |
| BV _{EB0} | -5 | - | - | V | I _E =-10uA, I _c =0 |
| I _{CB0} | - | - | -50 | nA | V _{CB} =-60V, I _E =0 |
| I _{EB0} | - | - | -10 | nA | V _{EB} =-5V, I _c =0 |
| V _{CE(sat)1} | - | - | -150 | mV | I _c =-150mA, I _B =-15mA |
| V _{CE(sat)2} | - | - | -500 | mV | I _c =-500mA, I _B =-50mA |
| V _{BE(sat)1} | - | - | -900 | mV | I _c =-150mA, I _B =-15mA |
| V _{BE(sat)2} | - | - | -1.1 | V | I _c =-500mA, I _B =-50mA |
| h _{FE1} | 75 | - | - | | V _{CE} =-5V, I _c =-0.1mA |
| h _{FE2} | 100 | - | - | | V _{CE} =-5V, I _c =-100mA |
| h _{FE3} | 70 | - | - | | V _{CE} =-5V, I _c =-500mA |
| h _{FE4} | 25 | - | - | | V _{CE} =-5V, I _c =-1A |
| f _T | 100 | - | - | MHz | V _{CE} =-10V, I _c =-50mA, f=100MHz |
| C _{ob} | - | - | 20 | pF | V _{CB} =-10V, I _E =0, f=1MHz |

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

Characteristics Curve


Important Notice:

- All rights are reserved. Reproduction in whole or in part is prohibited without the prior written approval of GTM.
- GTM reserves the right to make changes to its products without notice.
- GTM semiconductor products are not warranted to be suitable for use in life-support Applications, or systems.
- GTM assumes no liability for any consequence of customer product design, infringement of patents, or application assistance.

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