

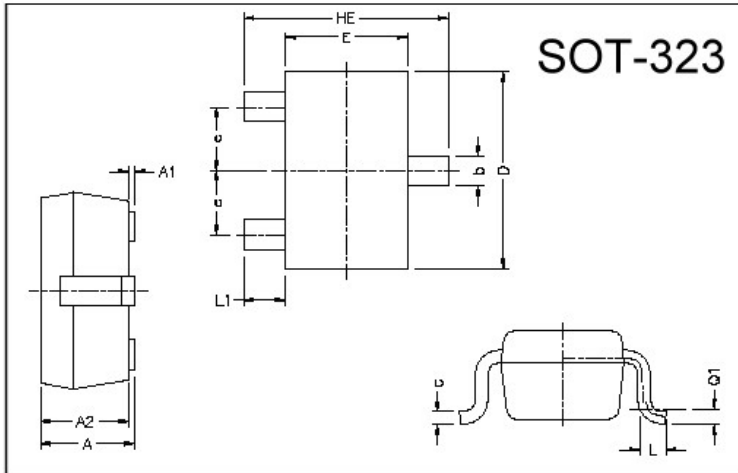
GSB1694

PNP EPITAXIAL TRANSISTOR

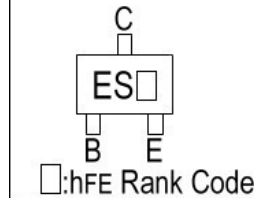
Description

The GSB1694 is designed for general purpose amplifier applications.

Package Dimensions



Marking :



| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|------|------|------------|------|
| | Min. | Max. | | Min. | Max. |
| A | 0.80 | 1.10 | L1 | 0.42 REF. | |
| A1 | 0 | 0.10 | L | 0.15 | 0.35 |
| A2 | 0.80 | 1.00 | b | 0.25 | 0.40 |
| D | 1.80 | 2.20 | c | 0.10 | 0.25 |
| E | 1.15 | 1.35 | e | 0.65 REF. | |
| HE | 1.80 | 2.40 | Q1 | 0.15 BSC. | |

Absolute Maximum Ratings at Ta = 25°C

| Parameter | Symbol | Ratings | Unit |
|------------------------------|--------|----------|------|
| Junction Temperature | Tj | +150 | °C |
| Storage Temperature | Tstg | -55~+150 | °C |
| Collector to Base Voltage | Vcbo | -30 | V |
| Collector to Emitter Voltage | Vceo | -30 | V |
| Emitter to Base Voltage | Vebo | -6 | V |
| Collector Current | Ic | -1 | A |
| Total Power Dissipation | PD | 225 | mW |

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

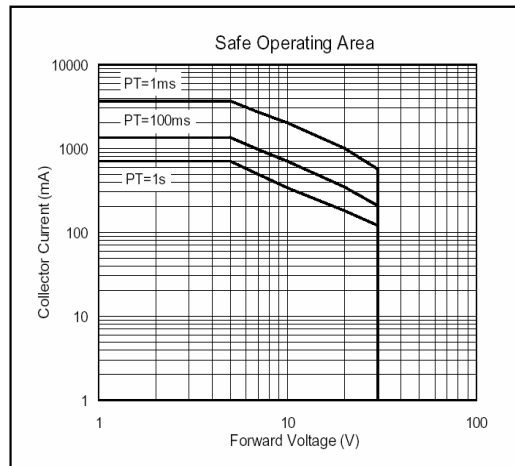
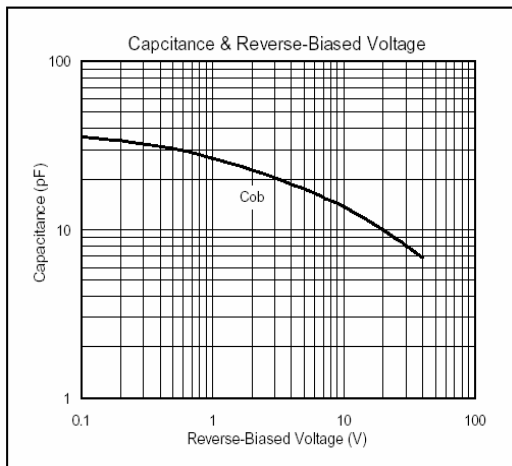
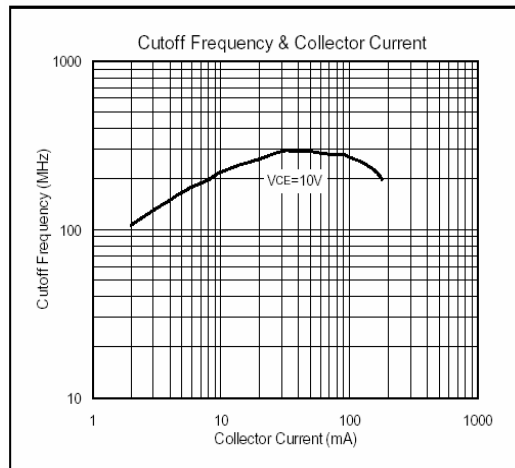
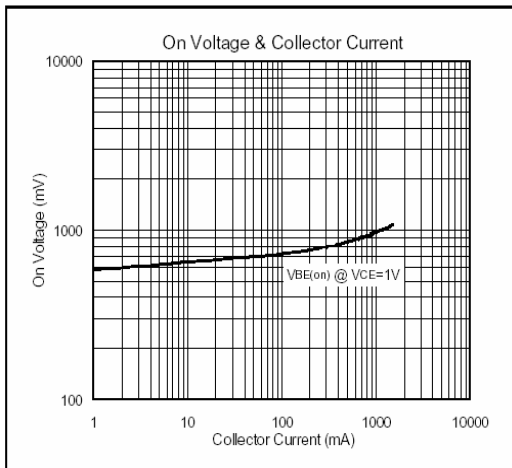
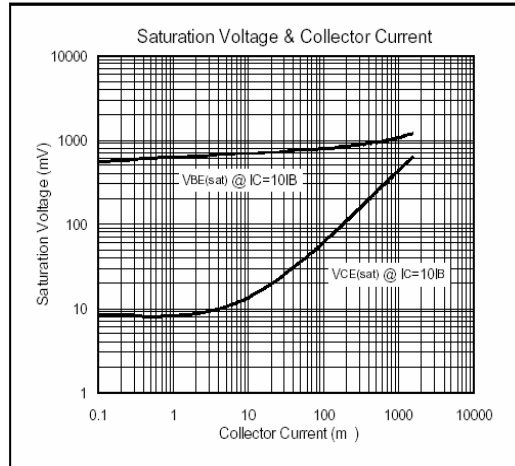
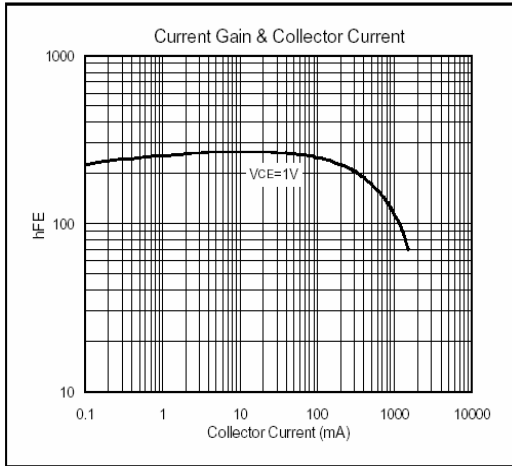
| Symbol | Min. | Typ. | Max. | Unit | Test Conditions |
|----------|------|------|------|------|-----------------------------|
| BVcbo | -30 | - | - | V | Ic=-10uA, IE=0 |
| BVceo | -30 | - | - | V | Ic=-1mA, Ib=0 |
| BVebo | -6 | - | - | V | IE=-10uA, Ic=0 |
| Icbo | - | - | -100 | nA | Vcb=-30V, IE=0 |
| IEBO | - | - | -100 | nA | VEB=-6V, Ic=0 |
| VCE(sat) | - | - | -380 | mV | Ic=-500mA, Ib=-25mA |
| *hFE | 120 | - | 500 | | VCE=-2V, Ic=-100mA |
| *fT | - | 320 | - | MHz | VCE=-2V, IE=100mA, f=100MHz |
| Cob | - | 7 | - | pF | Vcb=-10V, f=1MHz |

*Pulsed Test

Classification Of hFE

| Rank | ESC | ESD | ESE |
|-------|-----------|-----------|-----------|
| Range | 100 ~ 200 | 160 ~ 300 | 250 ~ 500 |

Characteristics Curve



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