



Micro Commercial Components

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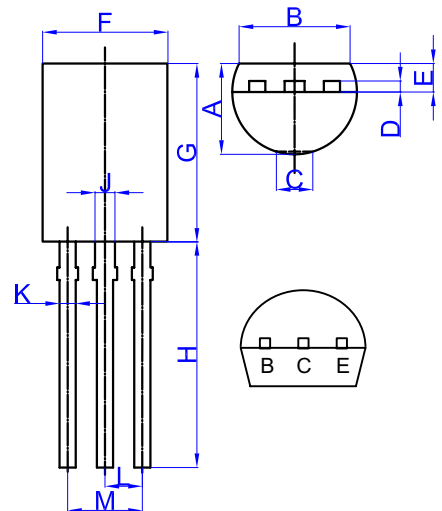
# 2SB562

## PNP Epitaxial Silicon Transistor

### Features

- Low Frequency Power Amplifier.
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Complementary pair with 2SD468

### TO-92L



### Maximum Ratings

| Symbol           | Rating                      | Rating      | Unit |
|------------------|-----------------------------|-------------|------|
| V <sub>CEO</sub> | Collector-Emitter Voltage   | -20         | V    |
| V <sub>CBO</sub> | Collector-Base Voltage      | -25         | V    |
| V <sub>EBO</sub> | Emitter-Base Voltage        | -5.0        | V    |
| I <sub>C</sub>   | Collector Current           | -1.0        | A    |
| P <sub>C</sub>   | Collector power dissipation | 0.9         | W    |
| T <sub>J</sub>   | Junction Temperature        | -55 to +150 | °C   |
| T <sub>STG</sub> | Storage Temperature         | -55 to +150 | °C   |

### Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Parameter | Min | Typ | Max | Units |
|--------|-----------|-----|-----|-----|-------|
|--------|-----------|-----|-----|-----|-------|

#### OFF CHARACTERISTICS

|                   |  |      |     |       |      |
|-------------------|--|------|-----|-------|------|
| BV <sub>CBO</sub> | Collector-Base Breakdown Voltage<br>(I <sub>C</sub> =-10 μAdc, I <sub>E</sub> =0)  | -20  | --- | ---   | Vdc  |
| BV <sub>CEO</sub> | Collector-Emitter Breakdown Voltage<br>(I <sub>C</sub> =-1mAdc, I <sub>B</sub> =0) | -25  | --- | ---   | Vdc  |
| BV <sub>EBO</sub> | Emitter-Base Breakdown Voltage<br>(I <sub>E</sub> =-0.01mAdc, I <sub>C</sub> =0)   | -5.0 | --- | ---   | Vdc  |
| I <sub>CBO</sub>  | Collector Cutoff Current<br>(V <sub>CB</sub> =-20Vdc, I <sub>E</sub> =0)           | ---  | --- | -1000 | nAdc |
| I <sub>EBO</sub>  | Emitter Cutoff Current<br>(V <sub>EB</sub> =-4.0Vdc, I <sub>C</sub> =0)            | ---  | --- | -1000 | nAdc |

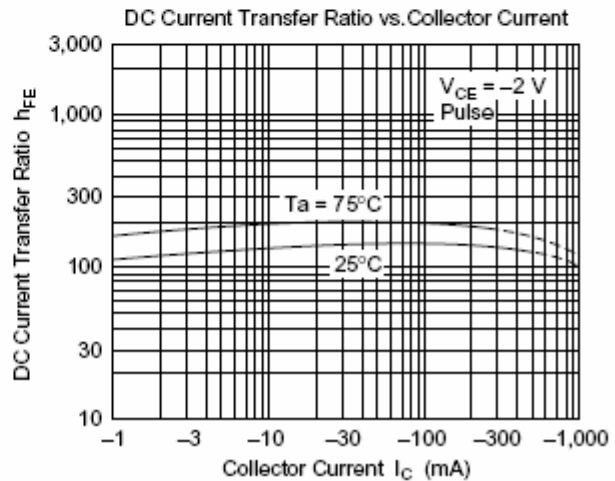
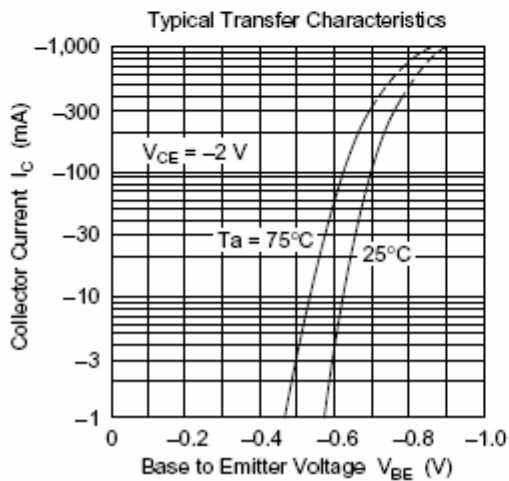
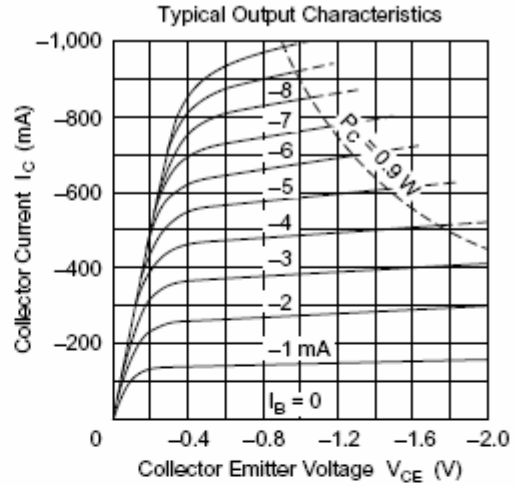
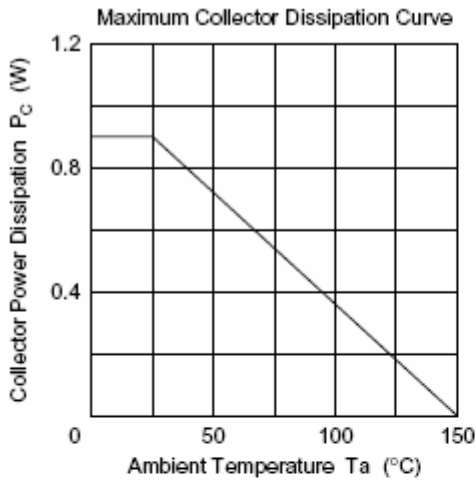
#### ON CHARACTERISTICS

|                      |  |     |     |      |     |
|----------------------|--|-----|-----|------|-----|
| h <sub>FE</sub>      | DC Current gain<br>(I <sub>C</sub> =500mAdc, V <sub>CE</sub> =2.0Vdc)                      | 85  | --- | 240  | --- |
| V <sub>BE(on)</sub>  | Base-Emitter On Voltage<br>(V <sub>CE</sub> =-2.0Vdc, I <sub>C</sub> =-500mAdc)            | --- | --- | -1.0 | Vdc |
| V <sub>CE(sat)</sub> | Collector-Emitter Saturation Voltage<br>(I <sub>C</sub> =-0.8Adc, I <sub>B</sub> =-80mAdc) | --- | --- | -0.5 | Vdc |
| f <sub>T</sub>       | Current Gain Bandwidth Product<br>(V <sub>CE</sub> =-2.0Vdc, I <sub>C</sub> =-500mAdc)     | --- | 350 | ---  | MHz |
| C <sub>ob</sub>      | Output Capacitance<br>(V <sub>CB</sub> =-10Vdc, I <sub>E</sub> =0, f=1.0MHz)               | --- | 38  | ---  | pF  |

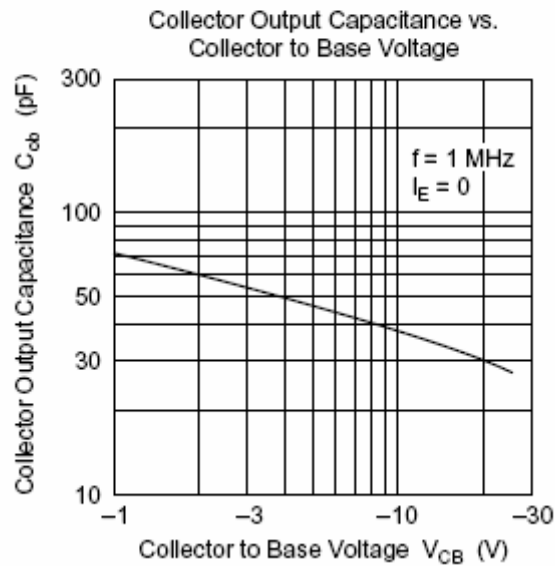
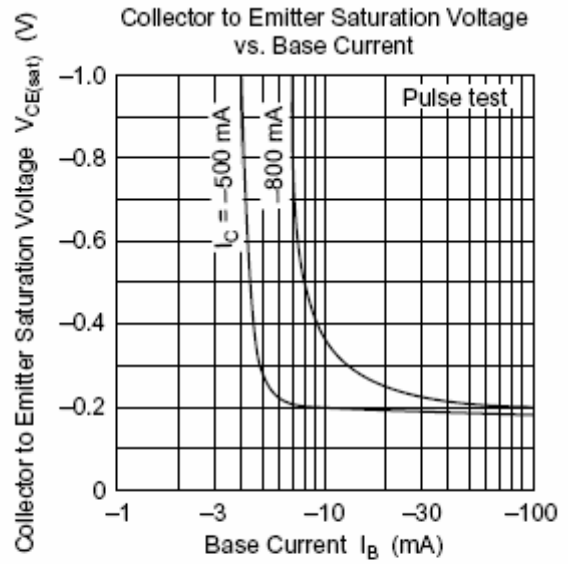
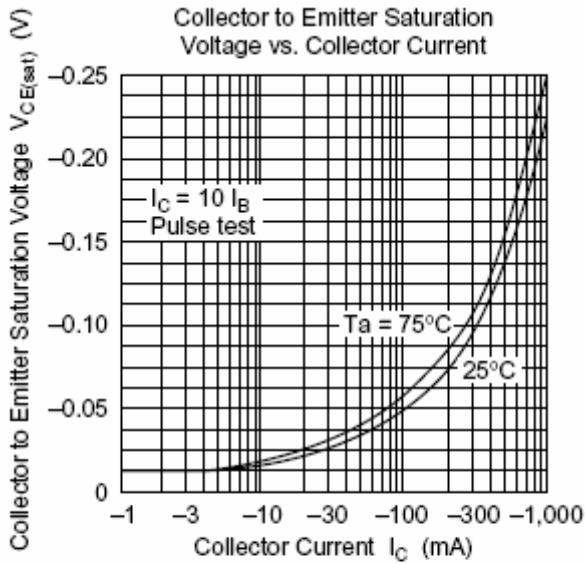
(1) h<sub>FE</sub> Classification B: 85~170, C: 120~240

| DIM | INCHES |       | MM    |       | NOTE |
|-----|--------|-------|-------|-------|------|
|     | MIN    | MAX   | MIN   | MAX   |      |
| A   | .146   | .161  | 3.700 | 4.10  |      |
| B   | .157   | ---   | 4.000 | ---   |      |
| C   | ---    | 0.063 | ---   | 1.600 |      |
| D   | .014   | .018  | 0.350 | 0.450 |      |
| E   | .050   | .062  | 1.280 | 1.580 |      |
| F   | .185   | .201  | 4.700 | 5.100 |      |
| G   | .307   | .323  | 7.800 | 8.200 |      |
| H   | .543   | .559  | 13.80 | 14.20 |      |
| J   | .024   | .031  | .600  | .800  |      |
| K   | .014   | .022  | 0.350 | .550  |      |
| L   | .050   | ---   | 1.270 | ---   |      |
| M   | .096   | .104  | 2.440 | 2.640 |      |

## Typical Characteristics



Typical Characteristics





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