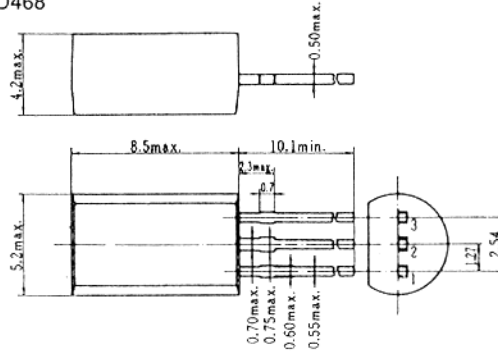


2SB562

SILICON PNP EPITAXIAL

LOW FREQUENCY POWER AMPLIFIER

Complementary pair with 2SD468



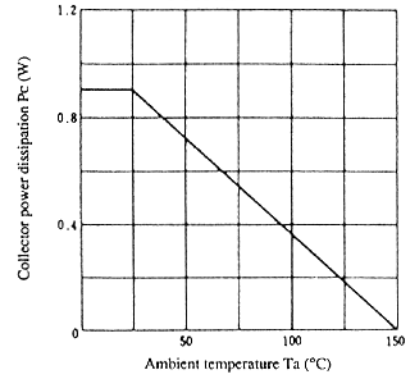
1. Emitter
 2. Collector
 3. Base
- (Dimensions in mm)

(JEDEC TO-92 MOD.)

■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

| Item | Symbol | 2SB562 | Unit |
|------------------------------|----------------------|-------------|------|
| Collector to base voltage | V _{CB0} | -25 | V |
| Collector to emitter voltage | V _{CEO} | -20 | V |
| Emitter to base voltage | V _{EBO} | -5 | V |
| Collector current | I _C | -1.0 | A |
| Collector peak current | i _{C(peak)} | -1.5 | A |
| Collector power dissipation | P _C | 0.9 | W |
| Junction temperature | T _j | 150 | °C |
| Storage temperature | T _{sig} | -55 to +150 | °C |

MAXIMUM COLLECTOR DISSIPATION CURVE



■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

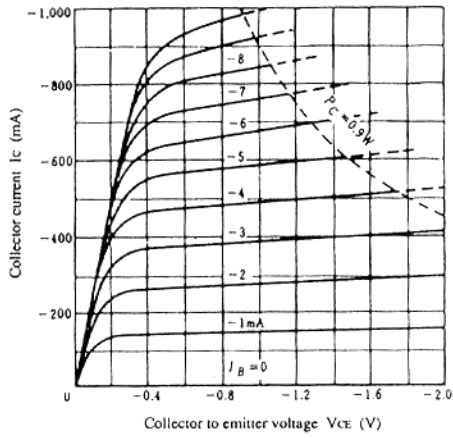
| Item | Symbol | Test Condition | min. | typ. | max. | Unit |
|---|----------------------|---|------|------|------|------|
| Collector to base breakdown voltage | V _{(BR)CBO} | I _C = -10μA, I _E = 0 | -25 | — | — | V |
| Collector to emitter breakdown voltage | V _{(BR)CEO} | I _C = -1mA, R _{BE} = ∞ | -20 | — | — | V |
| Emitter to base breakdown voltage | V _{(BR)EBO} | I _E = -10μA, I _C = 0 | -5 | — | — | V |
| Collector cutoff current | I _{CBO} | V _{CB} = -20V, I _E = 0 | — | — | -1.0 | μA |
| DC current transfer ratio | h _{FE} * | V _{CE} = -2V, I _C = -0.5A(Pulse Test) | 85 | — | 240 | |
| Collector to emitter saturation voltage | V _{CE(sat)} | I _C = -0.8A, I _B = -0.08A(Pulse Test) | — | -0.2 | -0.5 | V |
| Base to emitter voltage | V _{BE} | V _{CE} = -2V, I _C = -0.5A(Pulse Test) | — | -0.8 | -1.0 | V |
| Gain bandwidth product | f _T | V _{CE} = -2V, I _C = -0.5A(Pulse Test) | — | 350 | — | MHz |
| Collector output capacitance | C _{ob} | V _{CB} = -10V, I _E = 0, f = 1MHz | — | 38 | — | pF |

* The 2SB562 is grouped by h_{FE} as follows.

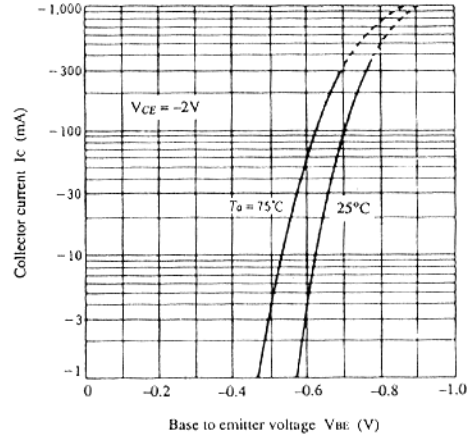
| B | C |
|-----------|------------|
| 85 to 170 | 120 to 240 |

2SB562

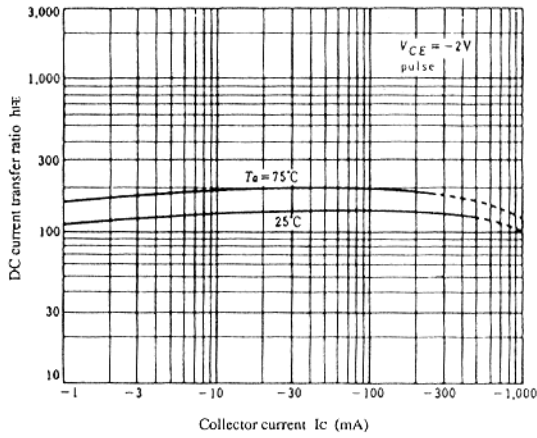
TYPICAL OUTPUT CHARACTERISTICS



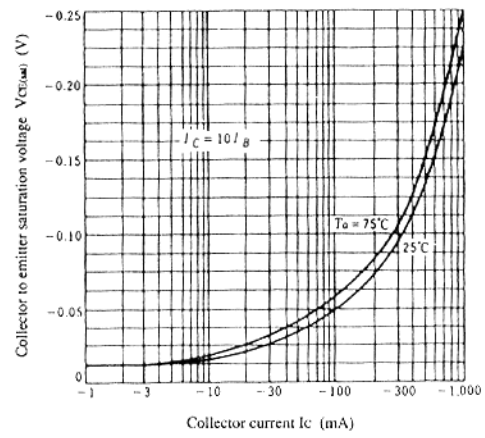
TYPICAL TRANSFER CHARACTERISTICS



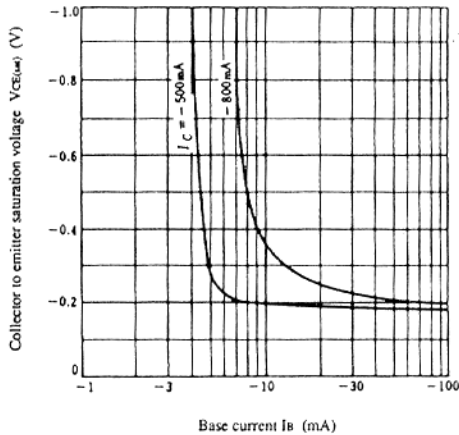
DC CURRENT TRANSFER RATIO VS. COLLECTOR CURRENT



COLLECTOR TO EMITTER SATURATION VOLTAGE VS. COLLECTOR CURRENT



COLLECTOR TO EMITTER SATURATION VOLTAGE VS. BASE CURRENT



COLLECTOR OUTPUT CAPACITANCE VS. COLLECTOR TO BASE VOLTAGE

