

2SC1162

Silicon NPN Epitaxial

HITACHI

Application

Low frequency power amplifier complementary pair with 2SA715

Outline

TO-126 MOD



1. Emitter
2. Collector
3. Base

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Absolute Maximum Ratings (Ta = 25°C)

| Item | Symbol | Ratings | Unit |
|------------------------------|---------------|-------------|------|
| Collector to base voltage | V_{CBO} | 35 | V |
| Collector to emitter voltage | V_{CEO} | 35 | V |
| Emitter to base voltage | V_{EBO} | 5 | V |
| Collector current | I_C | 2.5 | A |
| Collector peak current | $I_{C(peak)}$ | 3 | A |
| Collector power dissipation | P_C | 0.75 | W |
| | P_C^{*1} | 10 | W |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | -55 to +150 | °C |

Note: 1. Value at $T_C = 25^\circ\text{C}$.

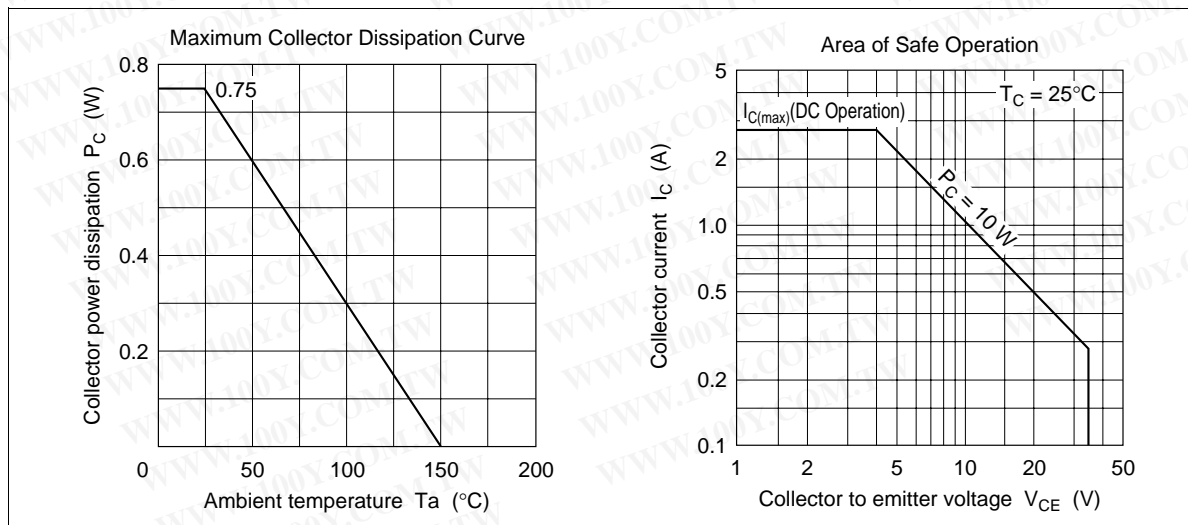
2SC1162

Electrical Characteristics (Ta = 25°C)

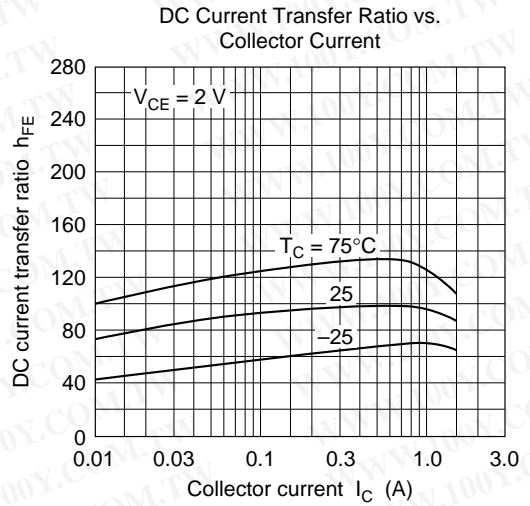
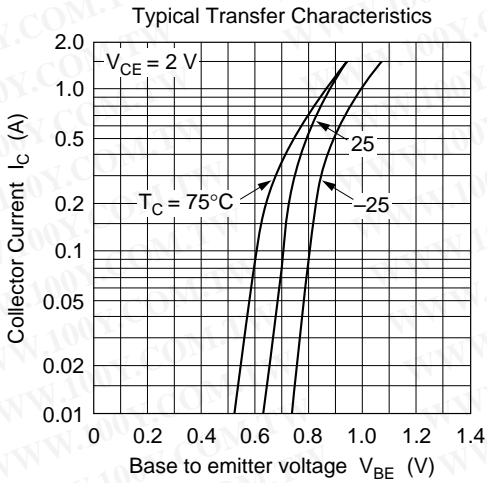
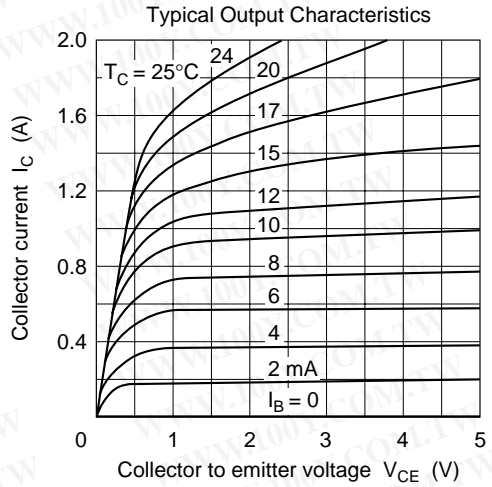
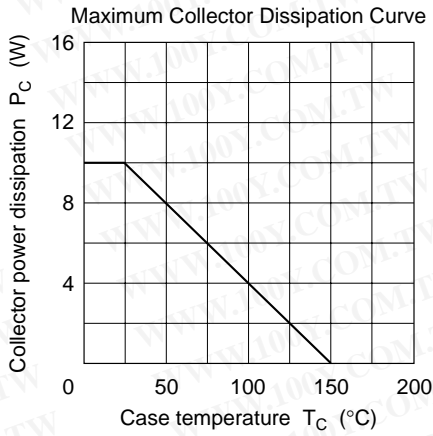
| Item | Symbol | Min | Typ | Max | Unit | Test conditions |
|---|---------------|-----|------|-----|---------------|---|
| Collector to base breakdown voltage | $V_{(BR)CBO}$ | 35 | — | — | V | $I_C = 1 \text{ mA}, I_E = 0$ |
| Collector to emitter breakdown voltage | $V_{(BR)CEO}$ | 35 | — | — | V | $I_C = 10 \text{ mA}, R_{BE} = \infty$ |
| Emitter to base breakdown voltage | $V_{(BR)EBO}$ | 5 | — | — | V | $I_E = 1 \text{ mA}, I_C = 0$ |
| Collector cutoff current | I_{CBO} | — | — | 20 | μA | $V_{CB} = 35 \text{ V}, I_E = 0$ |
| DC current transfer ratio | h_{FE}^{*1} | 60 | — | 320 | | $V_{CE} = 2 \text{ V}, I_C = 0.5 \text{ A}$ |
| | h_{FE} | 20 | — | — | | $V_{CE} = 2 \text{ V}, I_C = 1.5 \text{ A}$ (pulse test) |
| Base to emitter voltage | V_{BE} | — | 0.93 | 1.5 | V | $V_{CE} = 2 \text{ V}, I_C = 1.5 \text{ A}$ (pulse test) |
| Collector to emitter saturation voltage | $V_{CE(sat)}$ | — | 0.5 | 1.0 | V | $I_C = 2 \text{ A}, I_B = 0.2 \text{ A}$ (pulse test) |
| Gain bandwidth product | f_T | — | 180 | — | MHz | $V_{CE} = 2 \text{ V}, I_C = 0.2 \text{ A}$ |

Note: 1. The 2SC1162 is grouped by h_{FE} as follows.

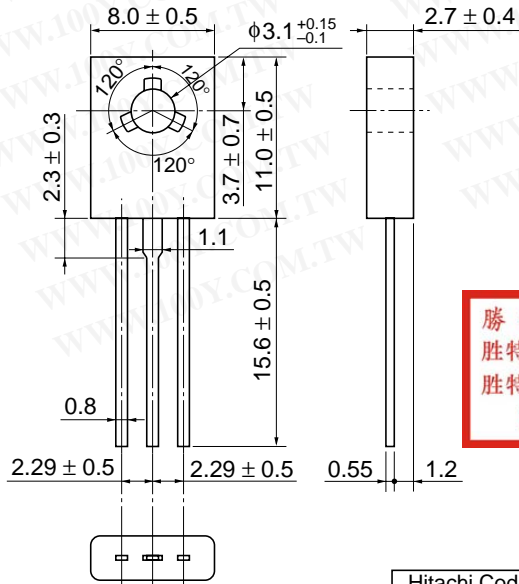
| B | C | D |
|-----------|------------|------------|
| 60 to 120 | 100 to 200 | 160 to 320 |



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| | |
|--------------------------|------------|
| Hitachi Code | TO-126 Mod |
| JEDEC | — |
| EIAJ | — |
| Weight (reference value) | 0.67 g |

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