
2SA673, 2SA673A

Silicon PNP Epitaxial

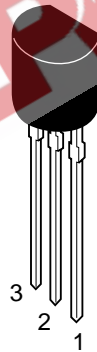
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Application

- Low frequency amplifier
- Complementary pair with 2SC1213 and 2SC1213A

Outline

TO-92 (1)



1. Emitter
2. Collector
3. Base

2SA673, 2SA673A

Absolute Maximum Ratings (Ta = 25°C)

| Item | Symbol | 2SA673 | 2SA673A | Unit |
|------------------------------|-----------|-------------|-------------|------|
| Collector to base voltage | V_{CBO} | -35 | -50 | V |
| Collector to emitter voltage | V_{CEO} | -35 | -50 | V |
| Emitter to base voltage | V_{EBO} | -4 | -4 | V |
| Collector current | I_C | -500 | -500 | mA |
| Collector power dissipation | P_C | 400 | 400 | mW |
| Junction temperature | T_j | 150 | 150 | °C |
| Storage temperature | T_{stg} | -55 to +150 | -55 to +150 | °C |

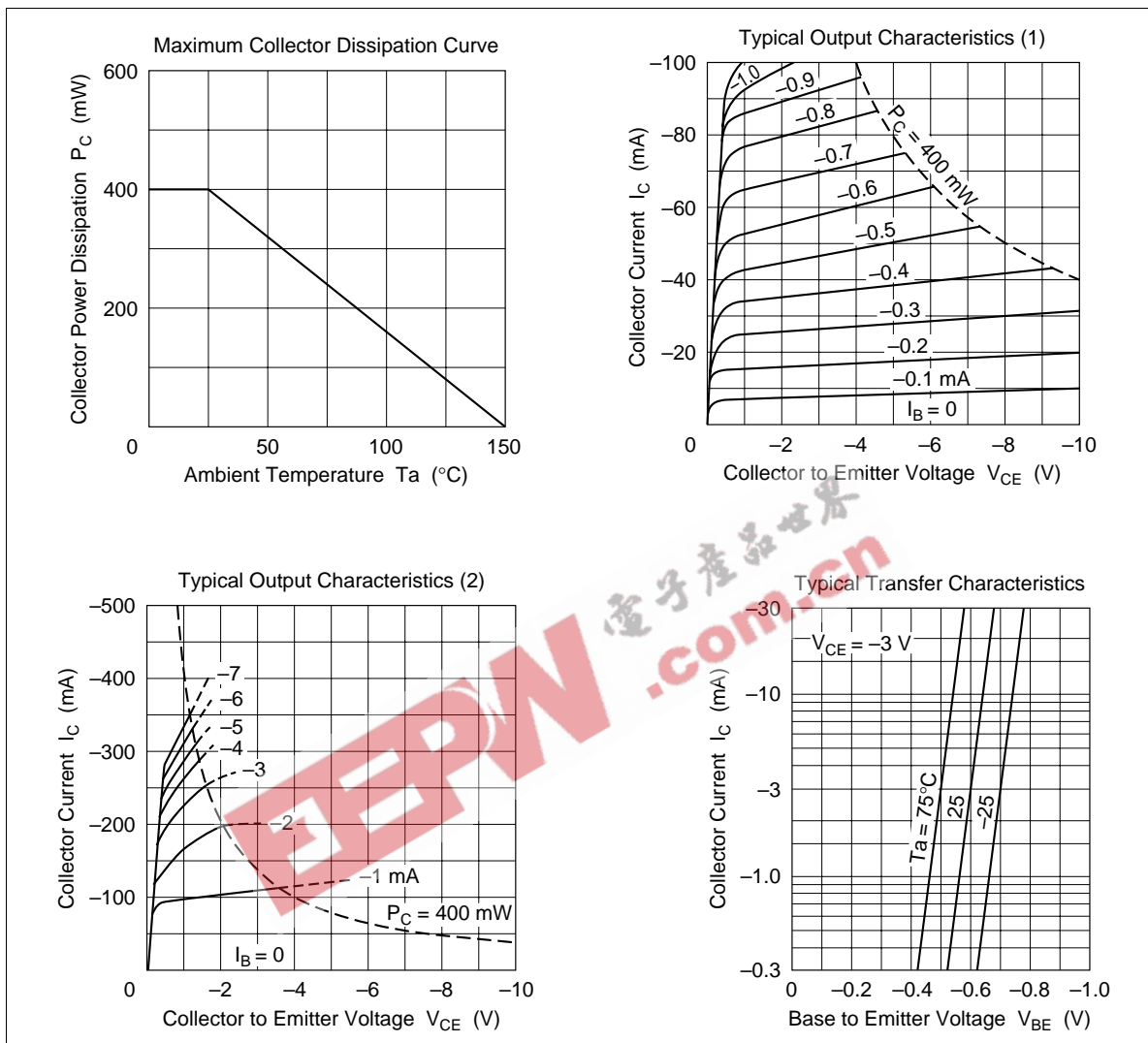
Electrical Characteristics (Ta = 25°C)

| Item | Symbol | 2SA673 | | | 2SA673A | | | Unit | Test conditions |
|---|---------------|--------|-------|------|---------|-------|------|---------|---|
| | | Min | Typ | Max | Min | Typ | Max | | |
| Collector to base breakdown voltage | $V_{(BR)CBO}$ | -35 | — | — | -50 | — | — | V | $I_C = -10 \mu A, I_E = 0$ |
| Collector to emitter breakdown voltage | $V_{(BR)CEO}$ | -35 | — | — | -50 | — | — | V | $I_C = -1 \text{ mA}, R_{BE} = \infty$ |
| Emitter to base breakdown voltage | $V_{(BR)EBO}$ | -4 | — | — | -4 | — | — | V | $I_E = -10 \mu A, I_C = 0$ |
| Collector cutoff current | I_{CBO} | — | — | -0.5 | — | — | -0.5 | μA | $V_{CB} = -20 \text{ V}, I_E = 0$ |
| Collector to emitter saturation voltage | $V_{CE(sat)}$ | — | -0.2 | -0.6 | — | -0.2 | -0.6 | V | $I_C = -150 \text{ mA}, I_B = -15 \text{ mA}^{*2}$ |
| DC current transfer ratio | h_{FE}^{*1} | 60 | — | 320 | 60 | — | 320 | | $V_{CE} = -3 \text{ V}, I_C = -10 \text{ mA}$ |
| DC current transfer ratio | h_{FE} | 10 | — | — | 10 | — | — | | $V_{CE} = -3 \text{ V}, I_C = -500 \text{ mA}^{*2}$ |
| Base to emitter voltage | V_{BE} | — | -0.64 | — | — | -0.64 | — | V | $V_{CE} = -3 \text{ V}, I_C = -10 \text{ mA}$ |

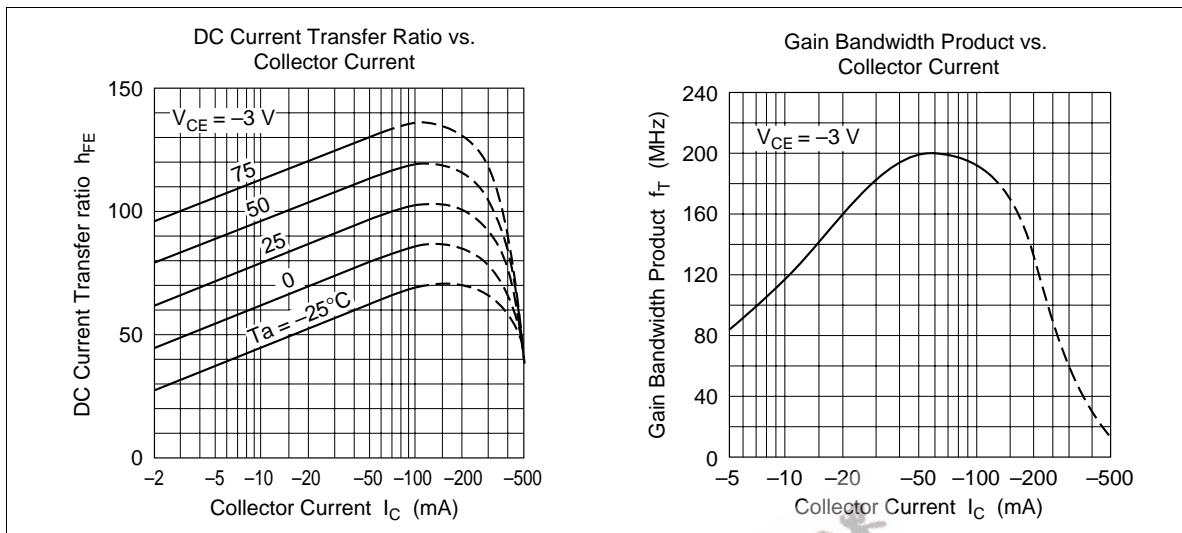
Notes: 1. The 2SA673 and 2SA673A are grouped by h_{FE} as follows.

2. Pulse test

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



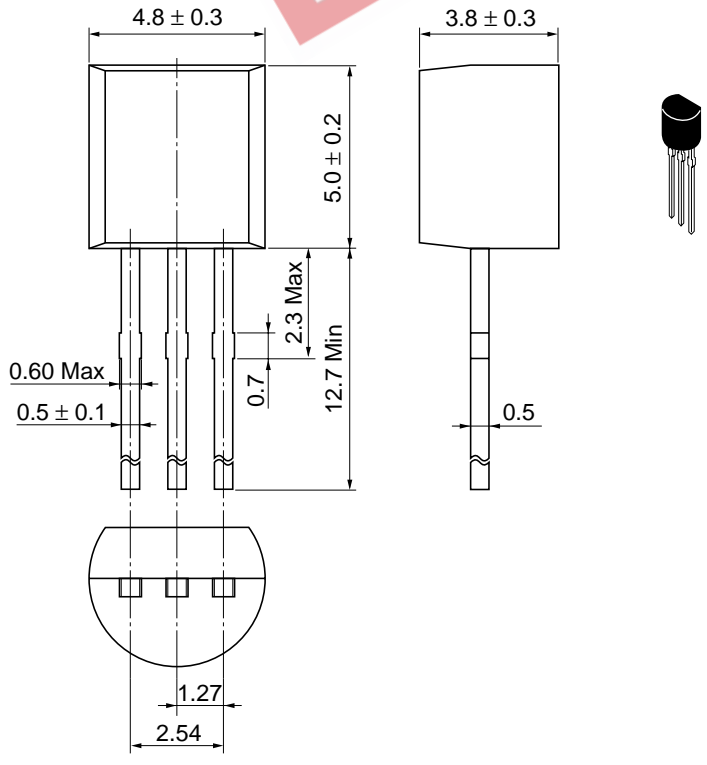
2SA673, 2SA673A



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Unit: mm



| | |
|--------------------------|-----------|
| Hitachi Code | TO-92 (1) |
| JEDEC | Conforms |
| EIAJ | Conforms |
| Weight (reference value) | 0.25 g |

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