

HIT673

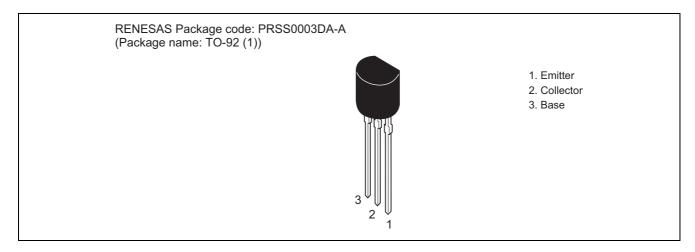
Silicon PNP Epitaxial

REJ03G1608-0100 Rev.1.00 Nov 28, 2007

Features

- Low frequency power amplifier
- Complementary pair with HIT1213

Outline



Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

| Item | Symbol | Ratings | Unit |
|------------------------------|----------------------------|-------------|------|
| Collector to base voltage | V_{CBO} | -50 | V |
| Collector to emitter voltage | $V_{\sf CEO}$ | -50 | V |
| Emitter to base voltage | V_{EBO} | - 5 | V |
| Collector current | I _C | -0.5 | A |
| Collector peak current | I _{C (peak)} Note | -1.0 | A |
| Collector power dissipation | Pc | 0.4 | W |
| Junction temperature | Tj | 150 | °C |
| Storage temperature | Tstg | -55 to +150 | °C |

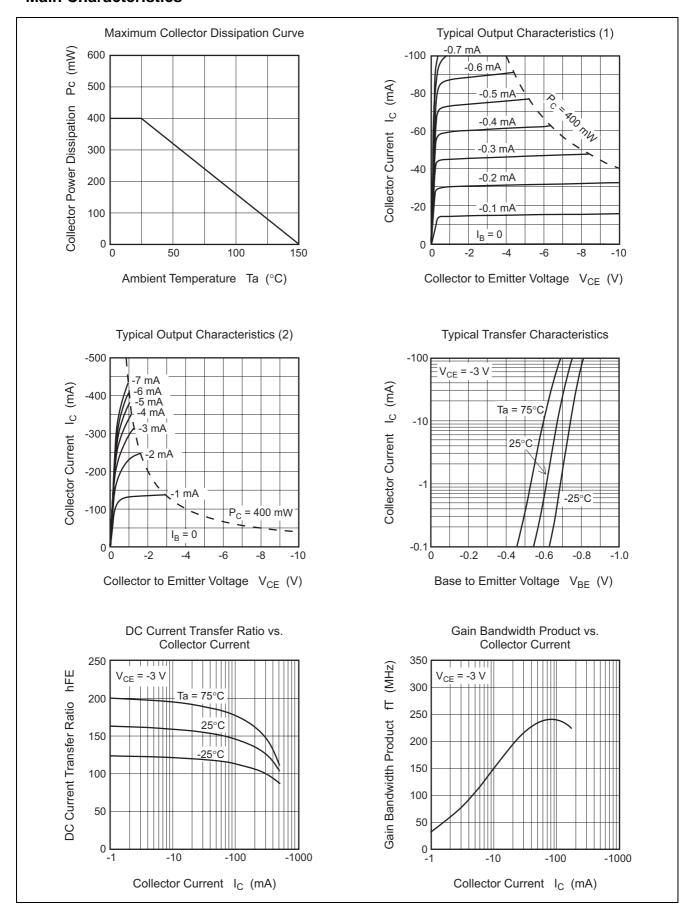
Note: PW ≤ 10 ms, Duty cycle ≤ 20%

Electrical Characteristics

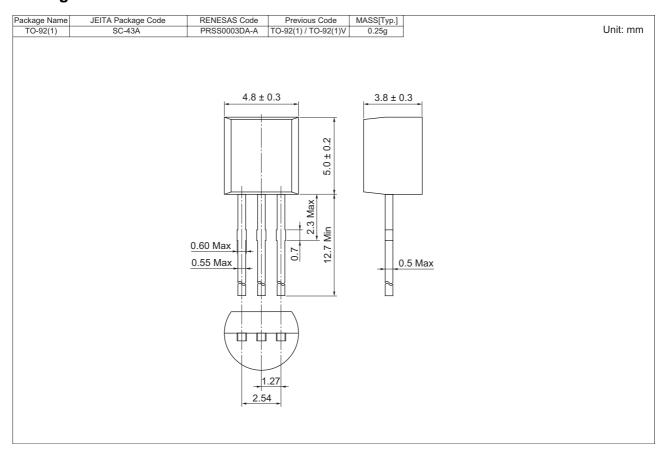
 $(Ta = 25^{\circ}C)$

| Item | Symbol | Min. | Тур | Max. | Unit | Test Conditions |
|---|----------------------|------------|-----|------|------|---|
| Collector to base breakdown voltage | V _{(BR)CBO} | -50 | _ | _ | V | $I_C = -10 \mu A, I_E = 0$ |
| Collector to emitter breakdown voltage | $V_{(BR)CEO}$ | -50 | _ | _ | V | $I_C = -0.1 \text{ mA}, R_{BE} = \infty$ |
| Emitter to base breakdown voltage | $V_{(BR)EBO}$ | - 5 | _ | _ | V | $I_E = -10 \mu A, I_C = 0$ |
| Collector cutoff current | I _{CBO} | _ | _ | -500 | nA | $V_{CB} = -50 \text{ V}, I_{E} = 0$ |
| Emitter cutoff current | I _{EBO} | _ | _ | -500 | nA | V _{EB} = -5 V |
| DC current transfer ratio | h _{FE1} | 60 | _ | 320 | _ | $V_{CE} = -3 \text{ V}, I_{C} = -10 \text{ mA}$ |
| Collector to emitter saturation voltage | V _{CE(sat)} | _ | _ | -0.6 | V | $I_C = -150 \text{ mA}, I_B = -15 \text{ mA}$ |
| Base to emitter voltage | V _{BE(on)} | _ | _ | -1.2 | V | $V_{CE} = -3V$, $I_{C} = -10$ mA |

Main Characteristics



Package Dimensions



Ordering Information

| Part Name | Quantity | Shipping Container | | | |
|--------------|-----------|-------------------------|--|--|--|
| HIT673-EQ | 2500 pcs. | Bulk, Vinyl Bag | | | |
| HIT673-TZ-EQ | 2500 pcs. | Hold Box, Radial Taping | | | |

Note: This product is designed for consumer use and not for automotive.

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- Renesas lechnology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Notes:

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