

HIT468

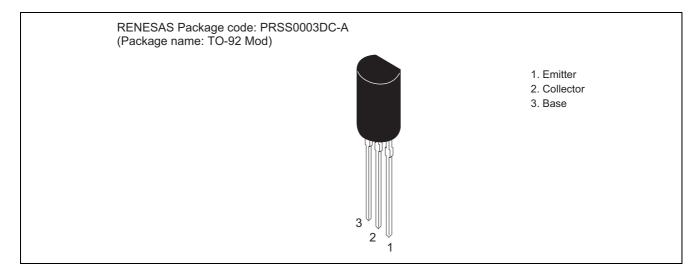
Silicon NPN Epitaxial

REJ03G1502-0200 Rev.2.00 Mar 05, 2007

Features

- Low frequency power amplifier
- Complementary pair with HIT562

Outline



Absolute Maximum Ratings

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

| ltem | Symbol | Ratings | Unit |
|------------------------------|--------------------------|-------------|------|
| Collector to base voltage | V _{CBO} | 45 | V |
| Collector to emitter voltage | V _{CEO} | 25 | V |
| Emitter to base voltage | V _{EBO} | 6 | V |
| Collector current | Ic | 1.0 | Α |
| Collector peak current | I _{C (peak)} *1 | 1.5 | Α |
| Collector power dissipation | Pc | 0.8 | W |
| Junction temperature | Tj | 150 | °C |
| Storage temperature | Tstg | -55 to +150 | °C |

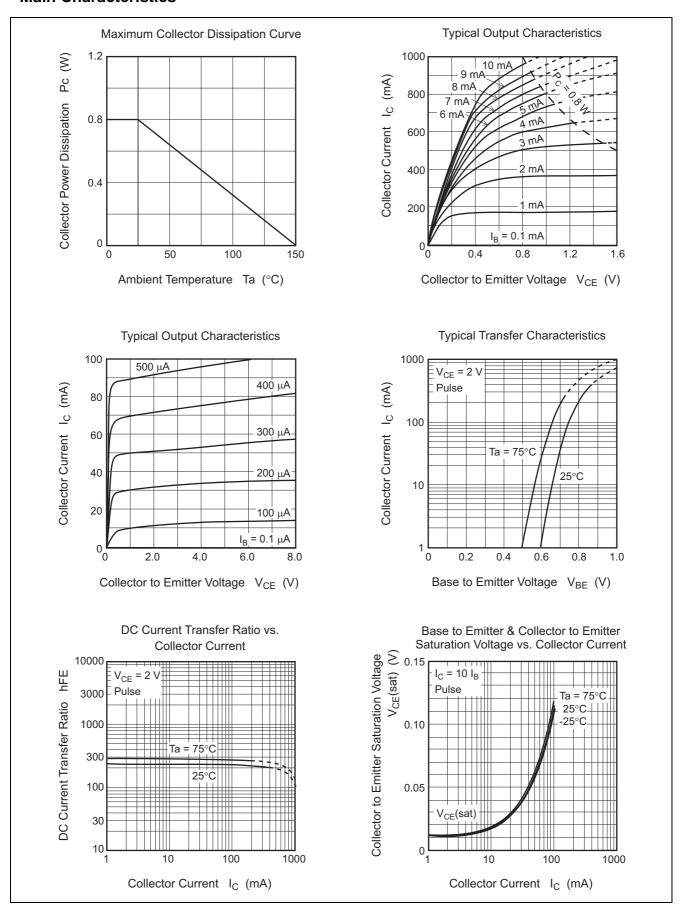
Note : 1. PW \leq 10 ms, Duty cycle \leq 20%

Electrical Characteristics

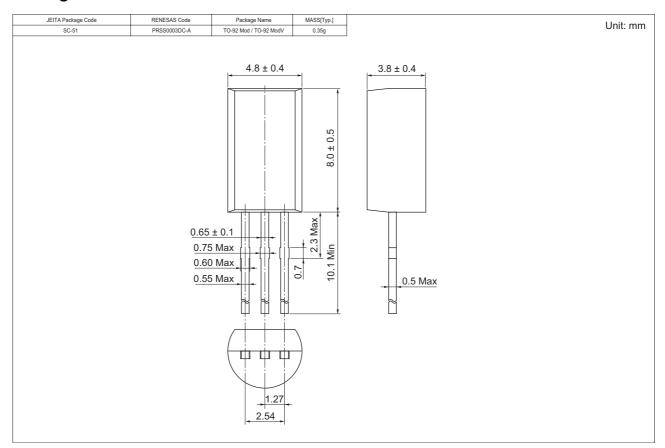
 $(Ta = 25^{\circ}C)$

| Item | Symbol | Min | Тур | Max | Unit | Test conditions |
|---|----------------------|-----|-----|-----|------|---|
| Collector to base breakdown voltage | V _{(BR)CBO} | 45 | _ | _ | V | $I_C = 10 \mu A, I_E = 0$ |
| Collector to emitter breakdown voltage | $V_{(BR)CEO}$ | 25 | _ | _ | V | I _C = 100 μA, R _{BE} = ∞ |
| Emitter to base breakdown voltage | V _{(BR)EBO} | 6 | _ | _ | V | $I_E = 10 \mu\text{A}, I_C = 0$ |
| Collector cutoff current | I _{CBO} | _ | _ | 500 | nA | $V_{CB} = 45 \text{ V}, I_{E} = 0$ |
| Emitter cutoff current | I _{EBO} | _ | _ | 500 | nA | $V_{EB} = 6 \text{ V}, I_{C} = 0$ |
| DC current transfer ratio | h _{FE1} | 45 | _ | _ | _ | $V_{CE} = 1 \text{ V}, I_{C} = 5 \text{ mA}$ |
| | h _{FE2} | 85 | _ | 330 | _ | V _{CE} = 1 V, I _C = 100 mA |
| | h _{FE3} | 40 | _ | _ | _ | $V_{CE} = 1 \text{ V}, I_{C} = 800 \text{ mA}$ |
| Collector to emitter saturation voltage | V _{CE(sat)} | _ | _ | 0.5 | V | I_C = 800 mA, I_B = 80 mA |
| Base to emitter voltage | V_{BE} | _ | _ | 1.0 | V | $V_{CE} = 1 \text{ V}, I_{C} = 10 \text{ mA}$ |
| Base to emitter saturation voltage | V _{BE(sat)} | _ | _ | 1.2 | V | I _C = 800 mA, I _B = 80 mA |

Main Characteristics



Package Dimensions



Ordering Information

| Part Name | Quantity | Shipping Container |
|-------------|----------|-------------------------|
| HIT468-EQ | 2500 pcs | Bulk, Vinyl Bag |
| HIT468TZ-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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