

# **HIT562**

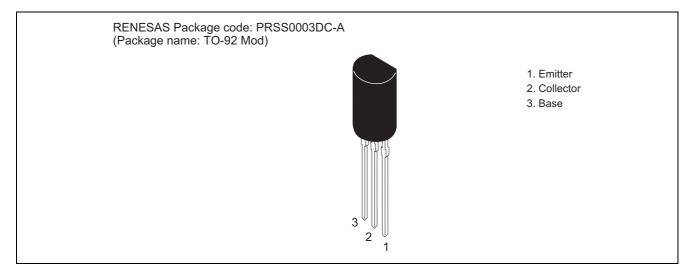
# Silicon PNP Epitaxial

REJ03G1503-0300 Rev.3.00 Jun 23, 2009

#### **Features**

- Low frequency power amplifier
- Complementary pair with HIT468

## **Outline**



# **Absolute Maximum Ratings**

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

	•		(14 25 6)
Item	Symbol	Ratings	Unit
Collector to base voltage	$V_{CBO}$	-45	V
Collector to emitter voltage	V <sub>CEO</sub>	-25	V
Emitter to base voltage	V <sub>EBO</sub>	-6	V
Collector current	Ic	-1.0	Α
Collector peak current	I <sub>C (peak)</sub> *1	-1.5	Α
Collector power dissipation	P <sub>C</sub>	0.8	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

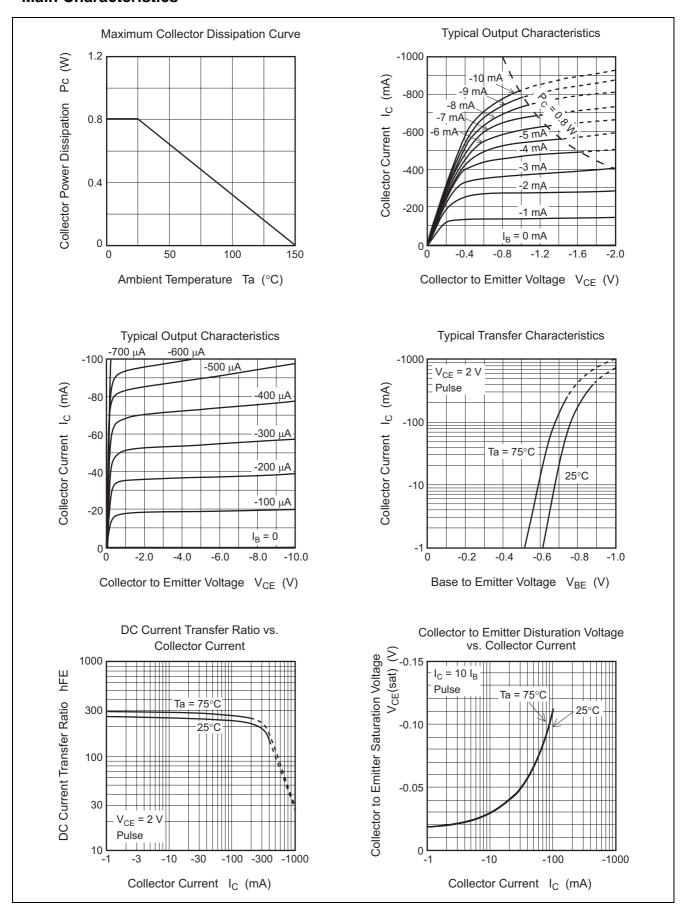
Note: 1. PW  $\leq$  10 ms, Duty cycle  $\leq$  20%

# **Electrical Characteristics**

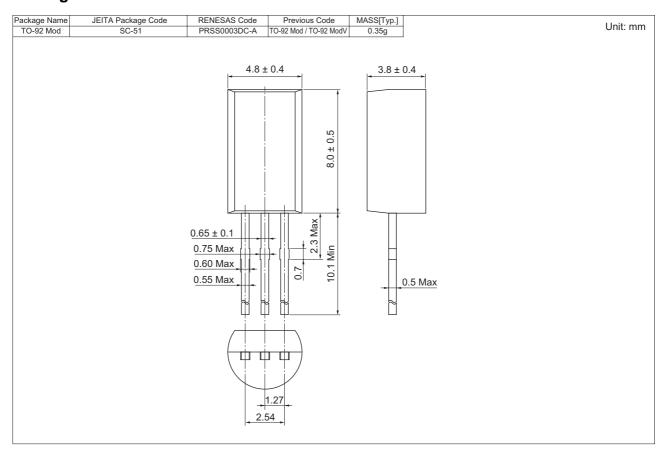
 $(Ta = 25^{\circ}C)$ 

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

### **Main Characteristics**



# **Package Dimensions**



# **Ordering Information**

Part Name	Quantity	Shipping Container	Remarks
HIT562-EQ	2500 pcs.	Bulk, Vinyl Bag	PB free product
HIT562-TZ-EQ	2500 pcs.	Hold Box, Radial Taping	
HIT562-HQ	2500 pcs.	Bulk, Vinyl Bag	Halogen free & PB free product
HIT562-TZ-HQ	2500 pcs.	Hold Box, Radial Taping	

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

Renesas Technology Corp. sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan

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

  1. This document is provided for reference purposes only so that Renesas customers may select the appropriate Renesas products for their use. Renesas neither makes warrantes or representations with respect to the accuracy or completeness of the information in this document nor grants any license to any intellectual property girbs to any other rights of representations with respect to the information in this document in this document of the purpose of the respect of the information in this document in the product data, diagrams, charts, programs, algorithms, and application circuit examples.

  3. You should not use the products of the technology described in this document for the purpose of military use. When exporting the products or technology described herein, you should follow the applicable export control laws and regulations, and procedures required by such laws and regulations, and procedures required to change without any plan protein. Before purchasing or using any Renesas products listed in this document, in the development is satisfied. The procedure is a such as that disclosed through our website, (http://www.renesas.com)

  3. Renesas has a used reasonable care in compling the information included in this document, but requires a subject to the procedure of the procedure of the procedure of t



### **RENESAS SALES OFFICES**

http://www.renesas.com

Refer to "http://www.renesas.com/en/network" for the latest and detailed information.

#### Renesas Technology America, Inc.

450 Holger Way, San Jose, CA 95134-1368, U.S.A Tel: <1> (408) 382-7500, Fax: <1> (408) 382-7501

Renesas Technology Europe Limited
Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, U.K.
Tel: <44> (1628) 585-100, Fax: <44> (1628) 585-900

Renesas Technology (Shanghai) Co., Ltd.
Unit 204, 205, AZIACenter, No.1233 Lujiazui Ring Rd, Pudong District, Shanghai, China 200120 Tel: <86> (21) 5877-1818, Fax: <86> (21) 6887-7858/7898

Renesas Technology Hong Kong Ltd.
7th Floor, North Tower, World Finance Centre, Harbour City, Canton Road, Tsimshatsui, Kowloon, Hong Kong Tel: <852> 2265-6688, Fax: <852> 2377-3473

**Renesas Technology Taiwan Co., Ltd.** 10th Floor, No.99, Fushing North Road, Taipei, Taiwan Tel: <886> (2) 2715-2888, Fax: <886> (2) 3518-3399

Renesas Technology Singapore Pte. Ltd.
1 Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632 Tel: <65> 6213-0200, Fax: <65> 6278-8001

Renesas Technology Korea Co., Ltd. Kukje Center Bldg. 18th Fl., 191, 2-ka, Hangang-ro, Yongsan-ku, Seoul 140-702, Korea Tel: <82> (2) 796-3115, Fax: <82> (2) 796-2145

Renesas Technology Malaysia Sdn. Bhd
Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No.18, Jln Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia Tel: <603> 7955-9390, Fax: <603> 7955-9510