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Old Company Name in Catalogs and Other Documents

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Renesas Electronics website: <http://www.renesas.com>

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

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EOL announced product

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2SA1566

Silicon PNP Epitaxial

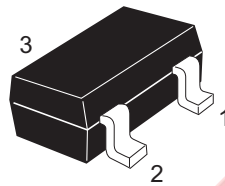
REJ03G0642-0200
 (Previous ADE-208-1021)
 Rev.2.00
 Aug.10.2005

Application

Low frequency amplifier

Outline

RENESAS Package code: PLSP0003ZB-A
 (Package name: MPAK)



1. Emitter
2. Base
3. Collector

Absolute Maximum Ratings

(Ta = 25°C)

| Item | Symbol | Ratings | Unit |
|------------------------------|-----------|-------------|------|
| Collector to base voltage | V_{CBO} | -120 | V |
| Collector to emitter voltage | V_{CEO} | -120 | V |
| Emitter to base voltage | V_{EBO} | -5 | V |
| Collector current | I_C | -100 | mA |
| Collector power dissipation | P_C | 150 | mW |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | -55 to +150 | °C |

Electrical Characteristics

(Ta = 25°C)

| Item | Symbol | Min | Typ | Max | Unit | Test conditions |
|---|---------------|------|-----|-------|---------|--|
| Collector to base breakdown voltage | $V_{(BR)CBO}$ | -120 | — | — | V | $I_C = -10 \mu A, I_E = 0$ |
| Collector to emitter breakdown voltage | $V_{(BR)CEO}$ | -120 | — | — | V | $I_C = -1 \text{ mA}, R_{BE} = \infty$ |
| Emitter to base breakdown voltage | $V_{(BR)EBO}$ | -5 | — | — | V | $I_E = -10 \mu A, I_C = 0$ |
| Collector cutoff current | I_{CBO} | — | — | -0.1 | μA | $V_{CB} = -70 \text{ V}, I_E = 0$ |
| Emitter cutoff current | I_{EBO} | — | — | -0.1 | μA | $V_{EB} = -2 \text{ V}, I_C = 0$ |
| DC current transfer ratio | h_{FE}^{*1} | 250 | — | 800 | | $V_{CE} = -12 \text{ V}, I_C = -2 \text{ mA}^{*2}$ |
| Collector to emitter saturation voltage | $V_{CE(sat)}$ | — | — | -0.15 | V | $I_C = -10 \text{ mA}, I_B = -1 \text{ mA}^{*2}$ |
| Base to emitter voltage | $V_{BE(sat)}$ | — | — | -1.0 | V | $I_C = -10 \text{ mA}, I_B = -1 \text{ mA}^{*2}$ |

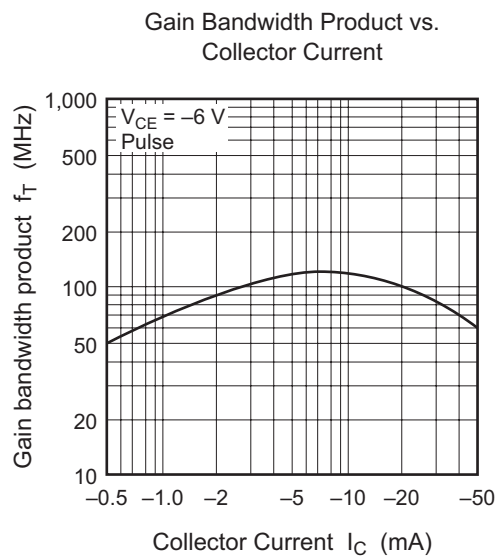
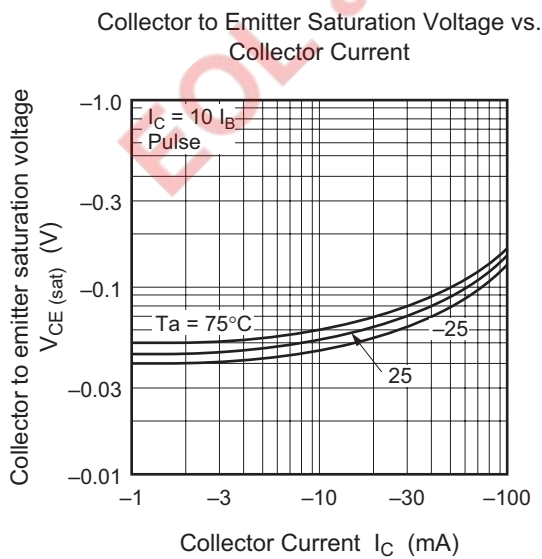
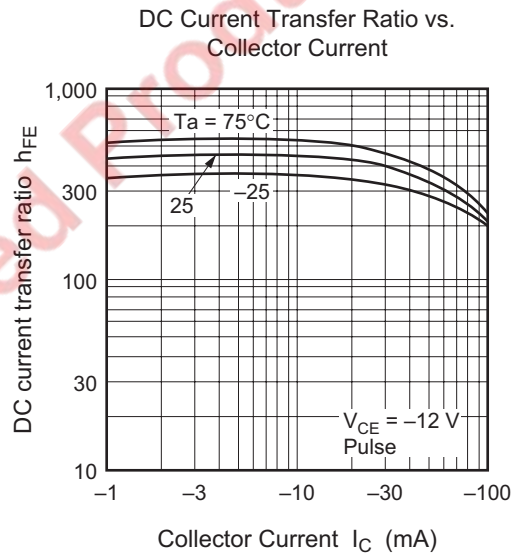
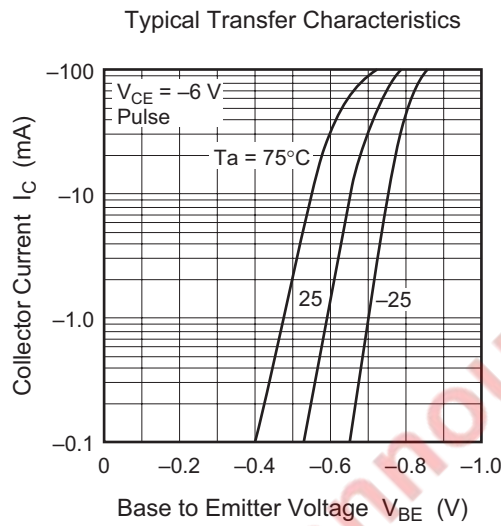
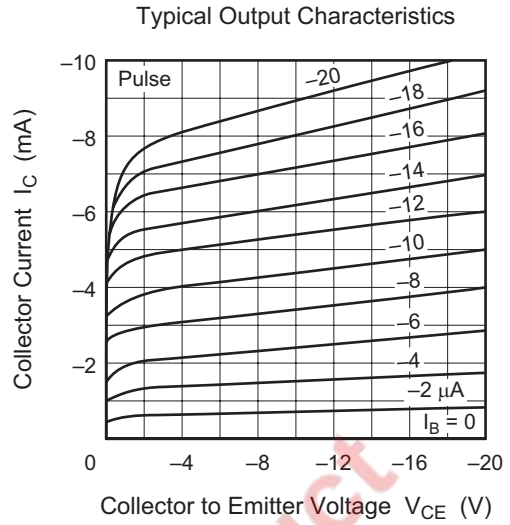
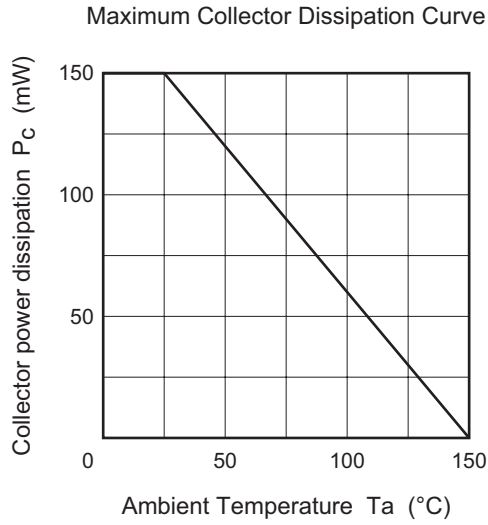
Notes: 1. The 2SA1566 is grouped by h_{FE} as follows.

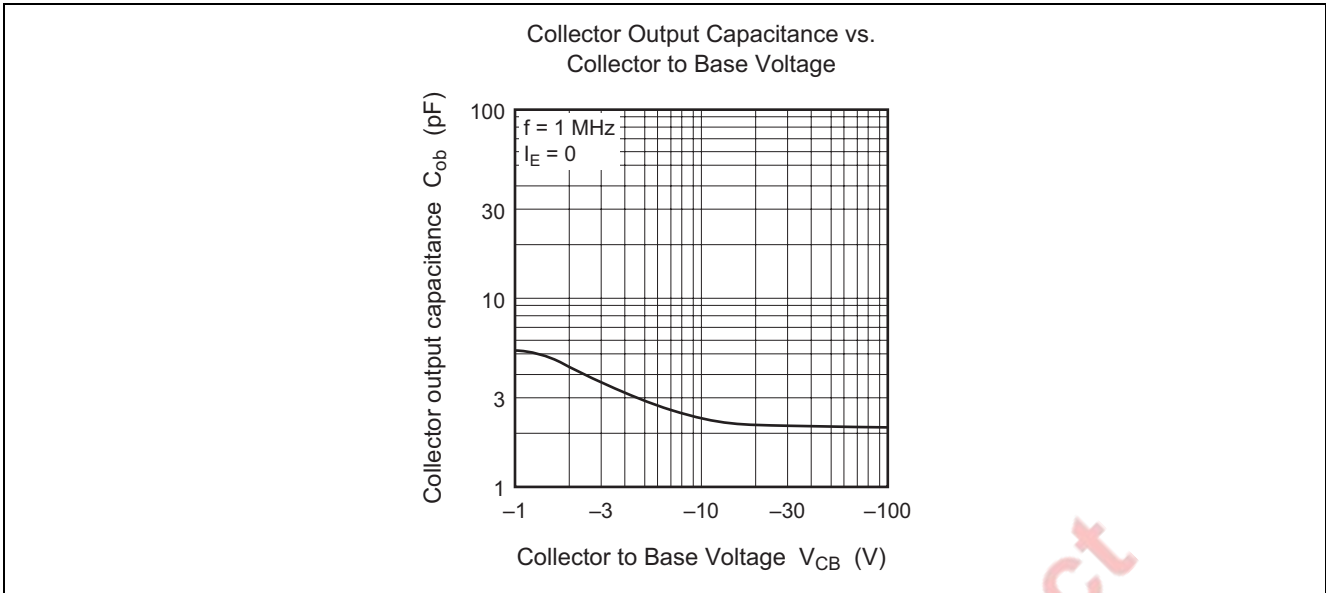
2. Pulse test

| Grade | D | E |
|----------|------------|------------|
| Mark | JID | JIE |
| h_{FE} | 250 to 500 | 400 to 800 |

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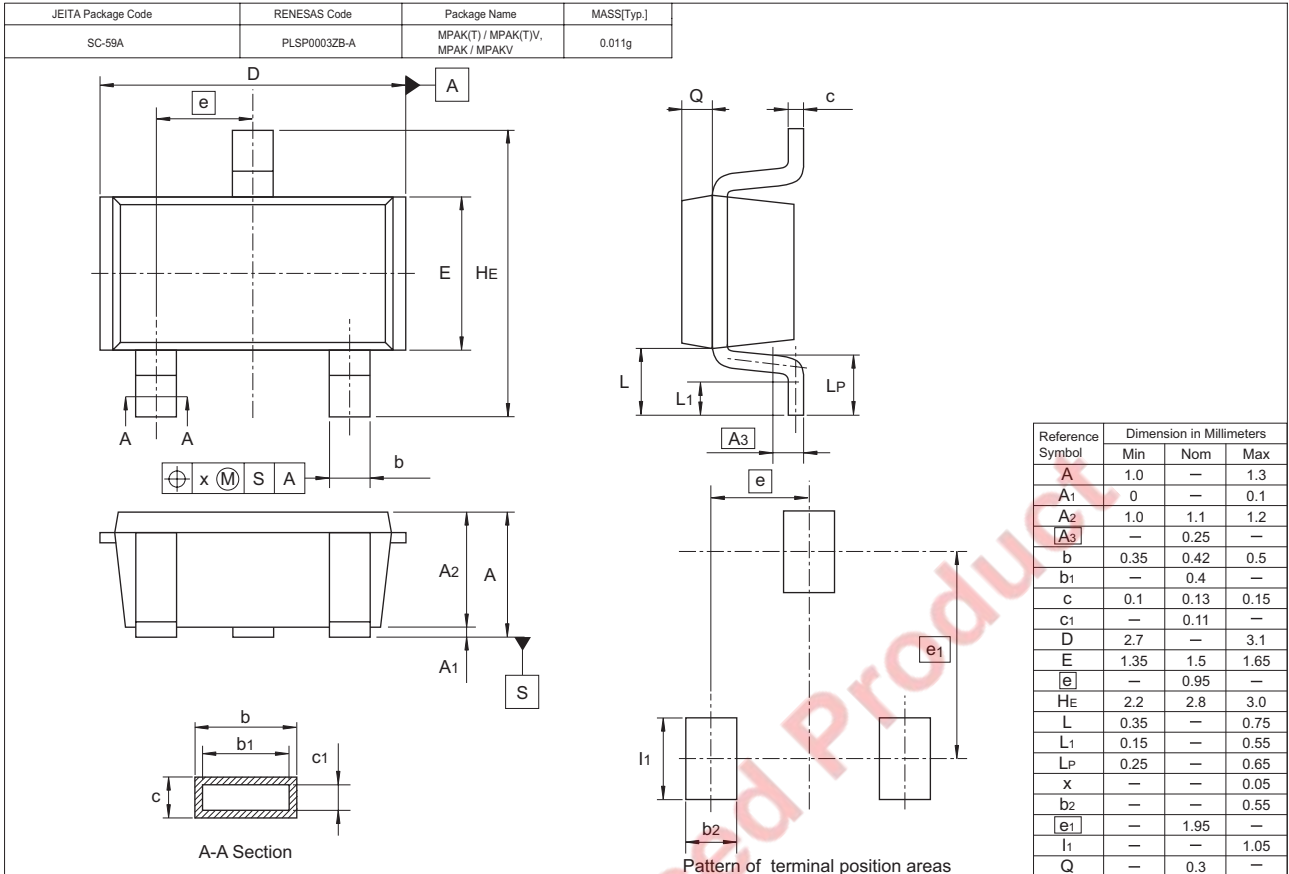
Main Characteristics





EOL announced Product

Package Dimensions



Ordering Information

| Part Name | Quantity | Shipping Container |
|----------------|----------|-----------------------------------|
| 2SA1566JIDTL-E | 3000 | φ 178 mm Reel, 8 mm Emboss Taping |
| 2SA1566JIETL-E | | |

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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 Hong Kong Ltd.

7th Floor, North Tower, World Finance Centre, Harbour City, 1 Canton Road, Tsimshatsui, Kowloon, Hong Kong
Tel: <852> 2265-6688, Fax: <852> 2730-6071

Renesas Technology Taiwan Co., Ltd.

10th Floor, No.99, Fushing North Road, Taipei, Taiwan
Tel: <886> (2) 2715-2888, Fax: <886> (2) 2713-2999

Renesas Technology (Shanghai) Co., Ltd.

Unit2607 Ruijing Building, No.205 Maoming Road (S), Shanghai 200020, China
Tel: <86> (21) 6472-1001, Fax: <86> (21) 6415-2952

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, Jalan Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia
Tel: <603> 7955-9390, Fax: <603> 7955-9510