

# 2SB562

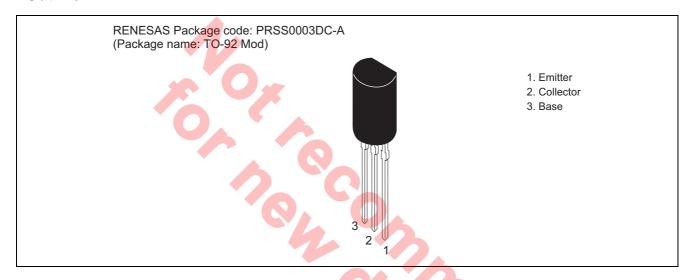
# Silicon PNP Epitaxial

REJ03G0646-0200 (Previous ADE-208-1024) Rev.2.00 Aug.10.2005

### **Application**

- Low frequency power amplifier
- Complementary pair with 2SD468

#### **Outline**



# **Absolute Maximum Ratings**

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V <sub>CBO</sub>	-25	V
Collector to emitter voltage	V <sub>CEO</sub>	-20	V
Emitter to base voltage	V <sub>EBO</sub>	<b>-5</b>	V
Collector current	Ic	-1.0	А
Collector peak current	i <sub>C(peak)</sub> -1.5		А
Collector power dissipation	P <sub>C</sub>	0.9	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

#### **Electrical Characteristics**

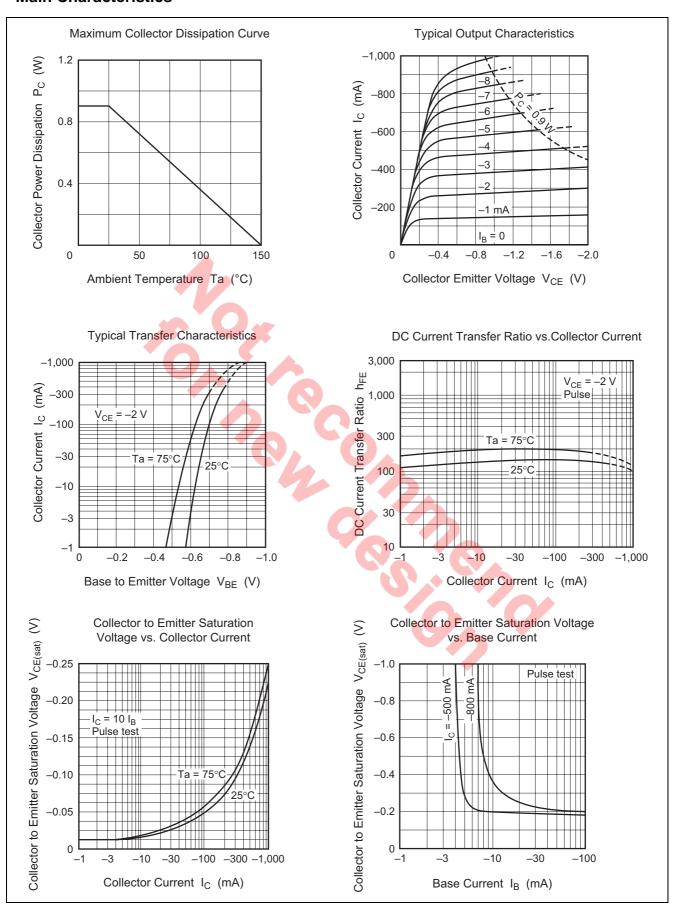
 $(Ta = 25^{\circ}C)$ 

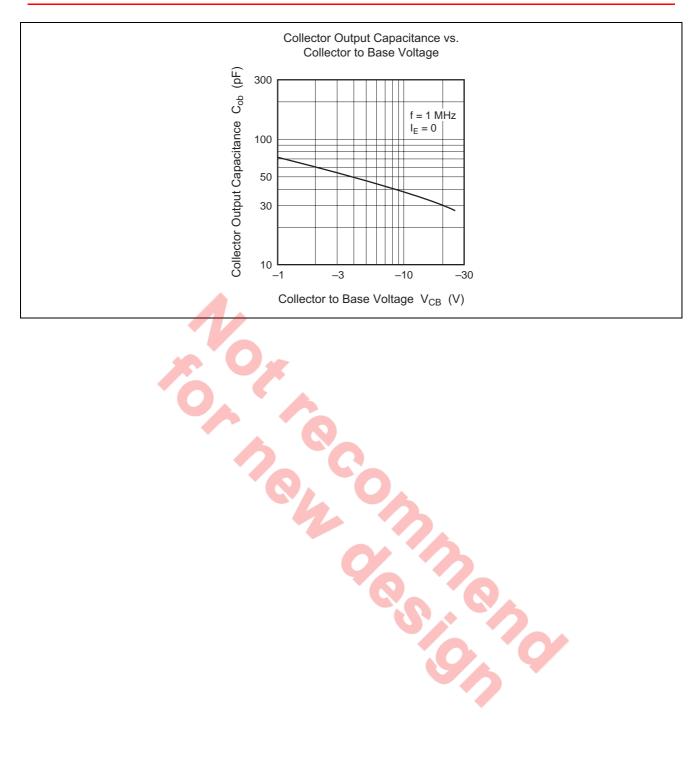
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-25	_	_	V	$I_C = -10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-20	_	_	V	$I_C = -1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	<b>-</b> 5	_		V	$I_E = -10 \mu A, I_C = 0$
Collector cutoff current	I <sub>CBO</sub>	_	_	-1.0	μΑ	$V_{CB} = -20 \text{ V}, I_E = 0$
DC current transfer ratio	h <sub>FE</sub> *1	85	_	240		V <sub>CE</sub> = −2 V,
						$I_C = -0.5 \text{ A (Pulse test)}$
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	_	-0.2	-0.5	V	$I_C = -0.8 A,$
						$I_B = -0.08 \text{ A (Pulse test)}$
Base to emitter voltage	$V_{BE}$	_	-0.8	-1.0	V	$V_{CE} = -2 V$ ,
						$I_C = -0.5 \text{ A (Pulse test)}$
Gain bandwidth product	f <sub>T</sub>	_	350	_	MHz	$V_{CE} = -2 V$ ,
						$I_C = -0.5 \text{ A (Pulse test)}$
Collector output capacitance	Cob	_	38	_	pF	$V_{CB} = -10 \text{ V}, I_E = 0$
						f = 1 MHz

Note: 1. The 2SB562 is grouped by here as follows.

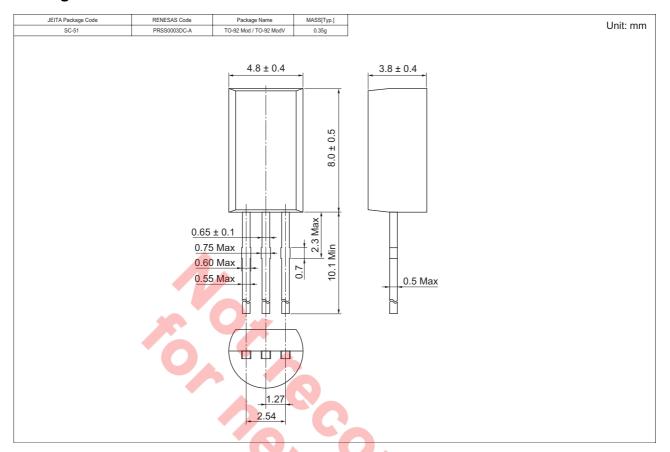
В		С
85 to 170	120	to 240

#### **Main Characteristics**





## **Package Dimensions**



## **Ordering Information**

Part Name	Quantity	Shipping Container
2SB562BTZ-E	2500	Hold Box, Radial Taping
2SB562CTZ-E		

Note: For some grades, production may be terminated. Please contact the Renesas sales office to check the state of production before ordering the product.

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