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)

401.0

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2SB561

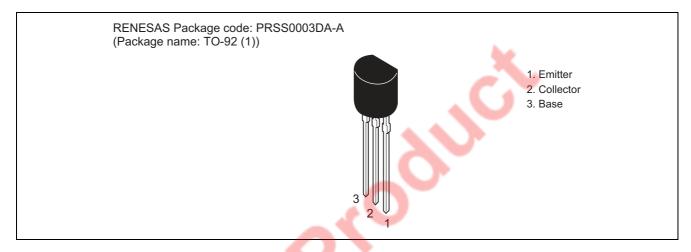
Silicon PNP Epitaxial

REJ03G0645-0200 (Previous ADE-208-1023) Rev.2.00 Aug.10.2005

Application

- Low frequency power amplifier
- Complementary pair with 2SD467

Outline



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	-25	V
Collector to emitter voltage	V _{CEO}	-20	V
Emitter to base voltage	V _{EBO}	-5	V
Collector current	Ic	-0.7	A
Collector peak current	i _{C(peak)}	-1.0	A
Collector power dissipation	P _C	0.5	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Electrical Characteristics

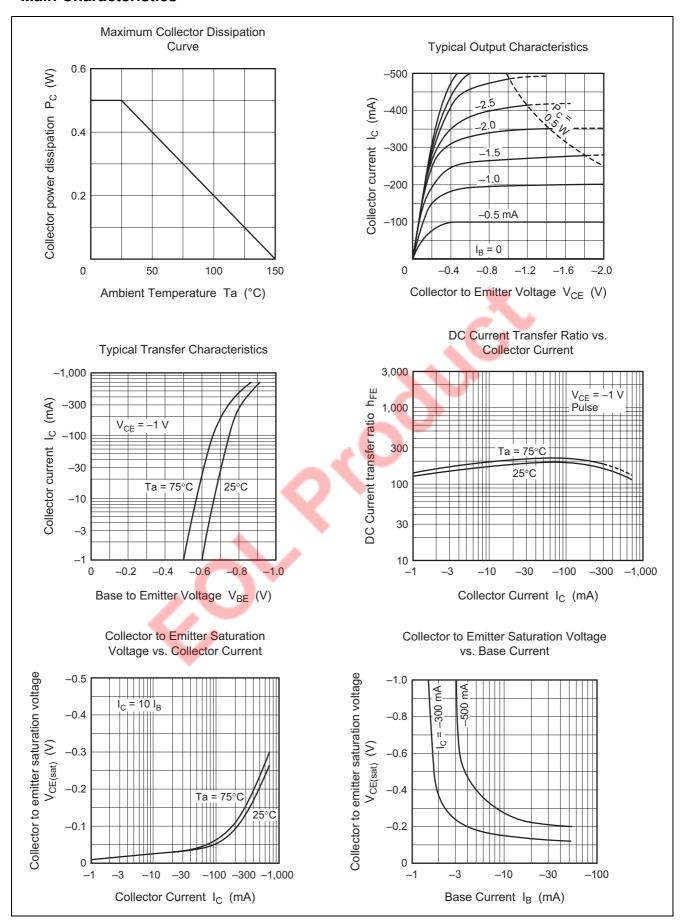
 $(Ta = 25^{\circ}C)$

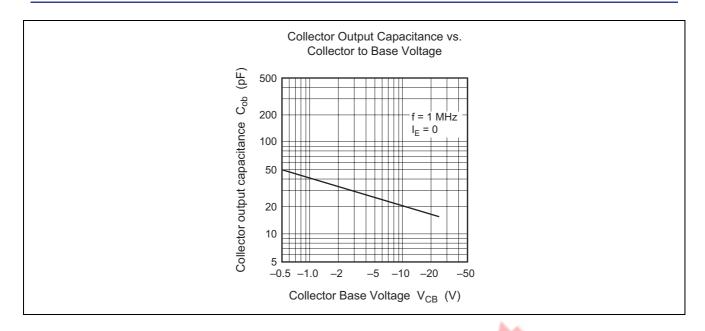
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-25	_	_	V	$I_{C} = -10 \propto A, I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-20	_		٧	$I_C = -1$ mA, $R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	- 5	_	_	V	$I_E = -10 \propto A, I_C = 0$
Collector cutoff current	I _{CBO}	_	_	-1.0	∞A	$V_{CB} = -20 \text{ V}, I_E = 0$
DC current transfer ratio	h _{FE} *1	85	_	240		$V_{CE} = -1 V$,
						$I_C = -0.15 \text{ A (Pulse test)}$
Collector to emitter saturation voltage	V _{CE(sat)}	_	-0.2	-0.5	>	$I_C = -0.5 \text{ A}, I_B = -0.05 \text{ A}$
Base to emitter voltage	V_{BE}	_	-0.75	-1.0	V	$V_{CE} = -1 V, I_{C} = -0.15 A$
Gain bandwidth product	f _T	_	350	_	MHz	$V_{CE} = -1 V, I_{C} = -0.15 A$
Collector output capacitance	Cob	_	20	_	pF	$V_{CB} = -10 \text{ V}, I_E = 0$
						f = 1 MHz

Note: 1. The 2SB561 is grouped by h_{FE} as follows.

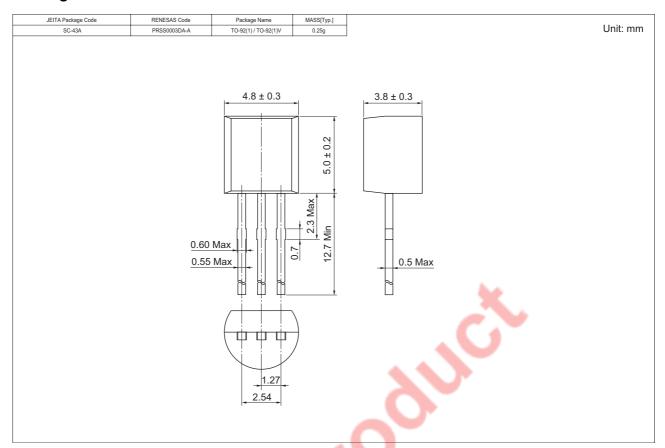
	•		
В	C		
85 to 170	120 to 240		

Main Characteristics





Package Dimensions



Ordering Information

Part Name	Quantity	K	Shipping Container			
2SB561BTZ-E	2500	_	Hold Box, Radial Taping			
2SB561CTZ-E						

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