

2SD467

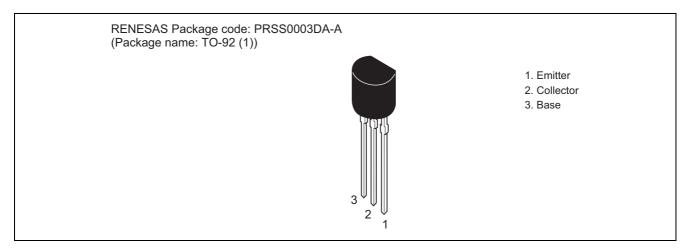
Silicon NPN Epitaxial

REJ03G0765-0200 (Previous ADE-208-1134) Rev.2.00 Aug.10.2005

Application

- Low frequency power amplifier
- Complementary pair with 2SB561

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	Pc	0.5	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Electrical Characteristics

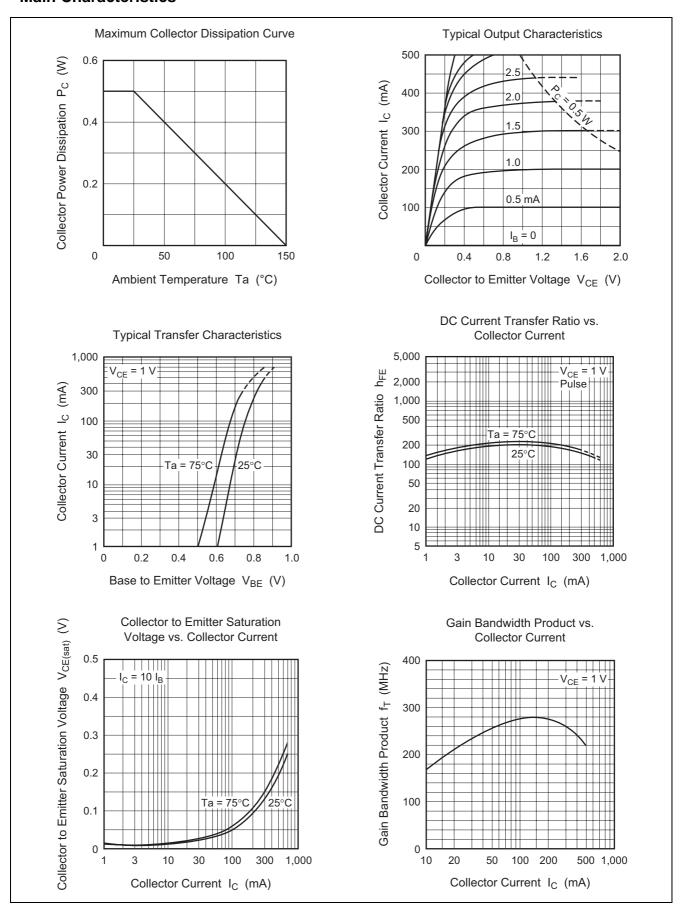
 $(Ta = 25^{\circ}C)$

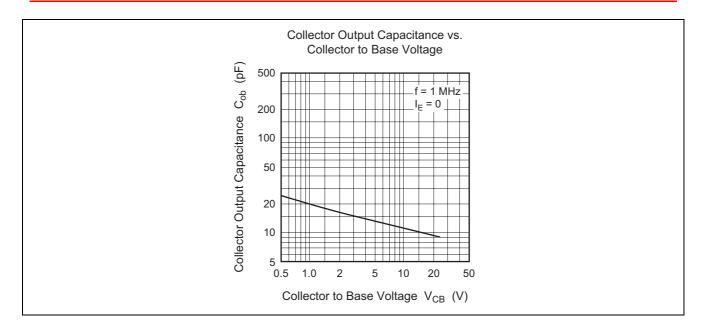
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	25	_	_	V	$I_C = 10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	20		_	V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	_	_	V	$I_E = 10 \mu A, I_C = 0$
Collector cutoff current	I _{CBO}		_	1.0	μΑ	$V_{CB} = 20 \text{ V}, I_E = 0$
DC current transfer ratio	h _{FE} *1	85	_	240		$V_{CE} = 1 \text{ V, } I_{C} = 0.15 \text{ A}$ (Pulse test)
Collector to emitter saturation voltage	V _{CE(sat)}	_	0.19	0.5	V	$I_C = 0.5 \text{ A}, I_B = 0.05 \text{ A}$ (Pulse test)
Base to emitter voltage	V_{BE}	_	0.76	1.0	V	V _{CE} = 1 V, I _C = 0.15 A (Pulse test)
Gain bandwidth product	f⊤	_	280	_	MHz	V _{CE} = 1 V, I _C = 0.15 A (Pulse test)
Collector output capacitance	Cob		12		pF	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$

Note: 1. The 2SD467 is grouped by h_{FE} as follows.

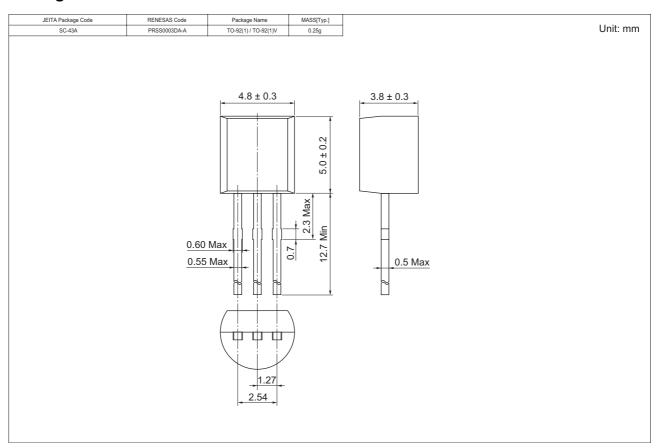
В	С
85 to170	120 to 240

Main Characteristics





Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SD467BTZ-E	2500	Hold Box, Radial Taping
2SD467CTZ-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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