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RENESAS

2SB647, 2SB647A

Silicon PNP Epitaxial

REJ03G0648-0200
(Previous ADE-208-1025)
Rev.2.00
Aug.10.2005

Application

- Low frequency power amplifier
- Complementary pair with 2SD667/A

Outline

RENESAS Package code: PRSS0003DC-A
(Package name: TO-92 Mod)

1. Emitter
2. Collector
3. Base

Not recommend for new design

Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	2SB647	2SB647A	Unit
Collector to base voltage	V_{CBO}	–120	–120	V
Collector to emitter voltage	V_{CEO}	–80	–100	V
Emitter to base voltage	V_{EBO}	–5	–5	V
Collector current	I_C	–1	–1	A
Collector peak current	$i_{C(peak)}$	–2	–2	A
Collector power dissipation	P_C	0.9	0.9	W
Junction temperature	Tj	150	150	°C
Storage temperature	Tstg	–55 to +150	–55 to +150	°C

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Electrical Characteristics

(Ta = 25°C)

Item	Symbol	2SB647			2SB647A			Unit	Test conditions
		Min	Typ	Max	Min	Typ	Max		
Collector to base breakdown voltage	$V_{(BR)CBO}$	–120	—	—	–120	—	—	V	I_C = –10 µA, I_E = 0
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	–80	—	—	–100	—	—	V	I_C = –1 mA, R_{BE} = ∞
Emitter to base breakdown voltage	$V_{(BR)EBO}$	–5	—	—	–5	—	—	V	I_E = –10 µA, I_C = 0
Collector cutoff current	I_{CBO}	—	—	–10	—	—	–10	µA	V_{CB} = –100 V, I_E = 0
DC current transfer ratio	h_{FE1}*[1]	60	—	320	60	—	200		V_{CE} = –5 V, I_C = –150 mA*[2]
	h_{FE2}	30	—	—	30	—	—		V_{CE} = –5 V, I_C = –500 mA*[2]
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	–1	—	—	–1	V	I_C = –500 mA, I_B = –50 mA*[2]
Base to emitter voltage	V_{BE}	—	—	–1.5	—	—	–1.5	V	V_{CE} = –5 V, I_C = –150 mA*[2]
Gain bandwidth product	f_T	—	140	—	—	140	—	MHz	V_{CE} = –5 V, I_C = –150 mA
Collector output capacitance	Cob	—	20	—	—	20	—	pF	V_{CB} = –10 V, I_E = 0 f = 1 MHz

Notes: 1. The 2SB647 and 2SB647A are grouped by h_{FE1} as follows.

2. Pulse test

	B	C	D
2SB647	—	100 to 200	160 to 320
2SB647A	60 to 120	100 to 200	—

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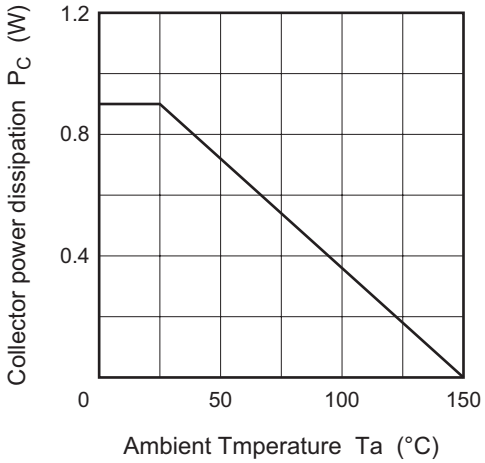
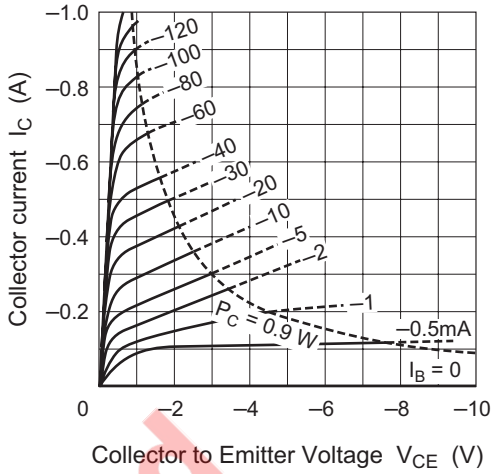
Main Characteristics

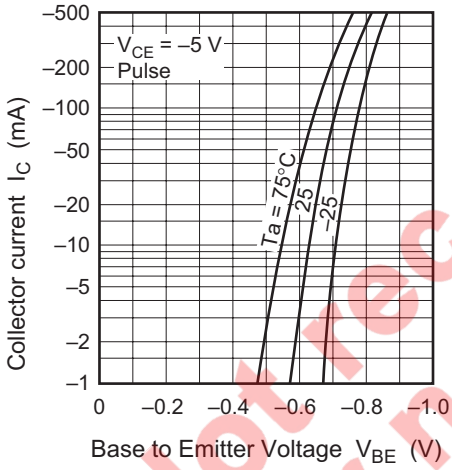
Maximum Collector Dissipation Curve



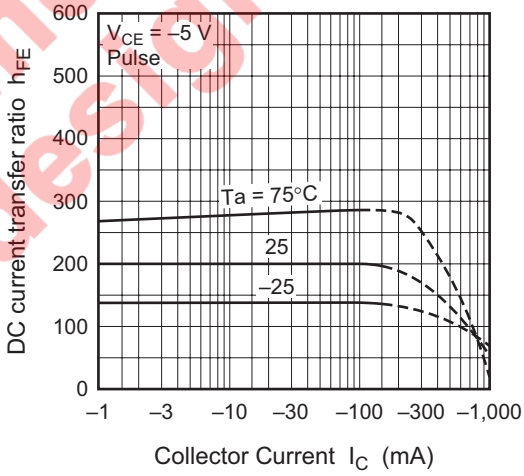
Typical Output Characteristics



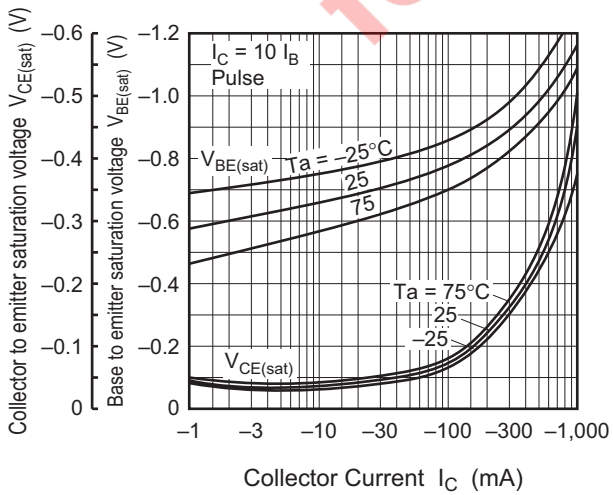
Typical Transfer Characteristics



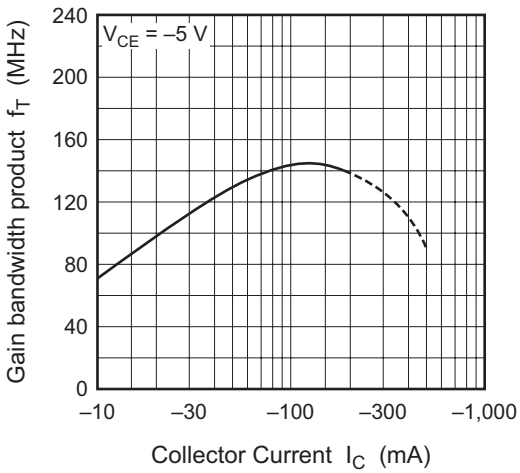
DC Current Transfer Ratio vs. Collector Current



Saturation Voltage vs. Collector Current



Gain Bandwidth Product vs. Collector Current



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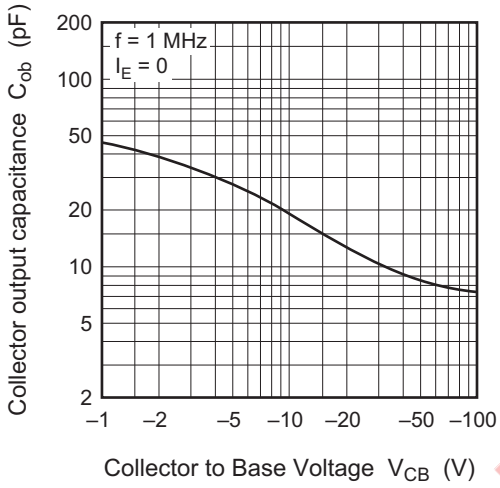
Collector Output Capacitance vs.
Collector to Base Voltage



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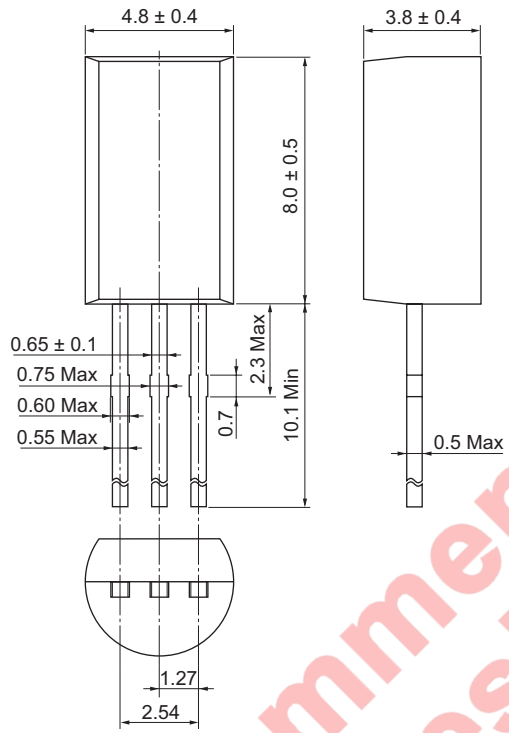
Package Dimensions

JEITA Package Code	RENESAS Code	Package Name	MASS[Typ.]
SC-51	PRSS0003DC-A	TO-92 Mod / TO-92 ModV	0.35g

Unit: mm



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Ordering Information

Part Name	Quantity	Shipping Container
2SB647CTZ-E 2SB647DTZ-E 2SB647ABTZ-E 2SB647ACTZ-E	2500	Hold Box, Radial Taping

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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