

2SB740

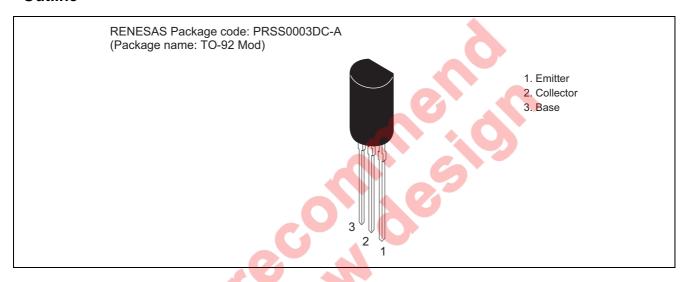
Silicon PNP Epitaxial

REJ03G0651-0200 (Previous ADE-208-1032) Rev.2.00 Aug.10.2005

Application

- Low frequency power amplifier
- Complementary pair with 2SD789

Outline



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	-70	V
Collector to emitter voltage	V_{CEO}	-50	V
Emitter to base voltage	V_{EBO}	-6	V
Collector current	Ic	-1	Α
Collector power dissipation	Pc	0.9	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Electrical Characteristics

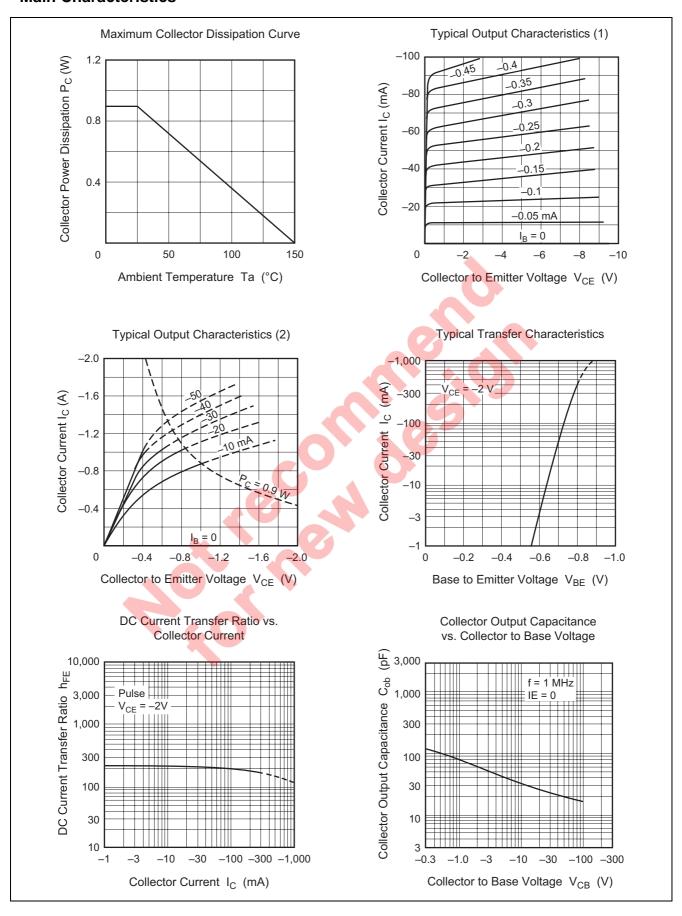
 $(Ta = 25^{\circ}C)$

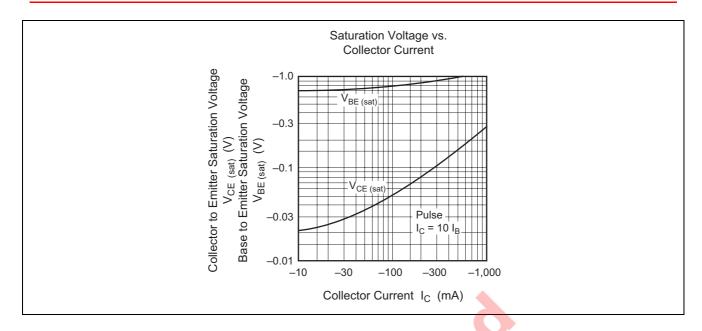
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-70	_	_	V	$I_C = -10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-50	_	_	V	$I_C = -1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-6	_	_	V	$I_E = -10 \mu A, I_C = 0$
Collector cutoff current	I _{CBO}	_	_	-1	μΑ	$V_{CB} = -55 \text{ V}, I_E = 0$
Emitter cutoff current	I _{EBO}	_	_	-0.2	μΑ	$V_{EB} = -6 \text{ V}, I_C = 0$
DC current transfer ratio	h _{FE} *1	100	_	320		$V_{CE} = -2 \text{ V}, I_{C} = -0.1 \text{ A}$
Collector to emitter saturation voltage	V _{CE(sat)}	_	_	-0.6	V	$I_C = -1 A$, $I_B = -0.1 A$
Gain bandwidth product	f⊤	_	150	_	MHz	$V_{CE} = -2 \text{ V}, I_{C} = -10 \text{ mA}$
Collector output capacitance	Cob	_	35	_	pF	$V_{CB} = -10 \text{ V}, I_E = 0,$
						f = 1 MHz

Note: 1. The 2SB740 is grouped by hFE as follows.

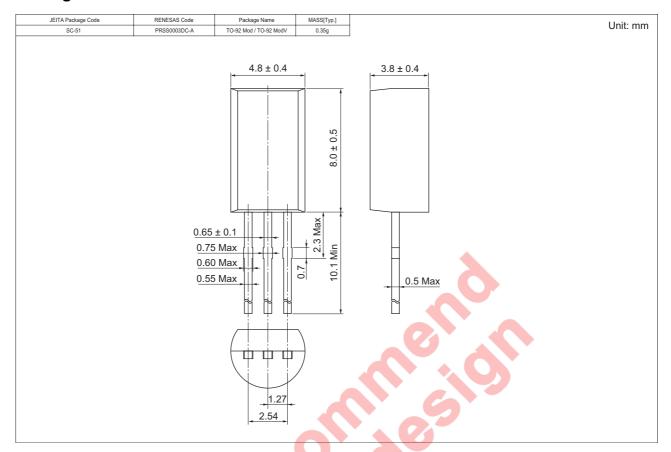
В	C	
100 to 200	160 to 320	
		$A \rightarrow A \cap A \cap A$
		0,76
		* ' \
		▼

Main Characteristics





Package Dimensions



Ordering Information

Part Name		Quantity	4		Shipping Container
2SB740BTZ-E	2500			Hold	Box, Radial Taping
2SB740CTZ-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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