

HIT8050-N

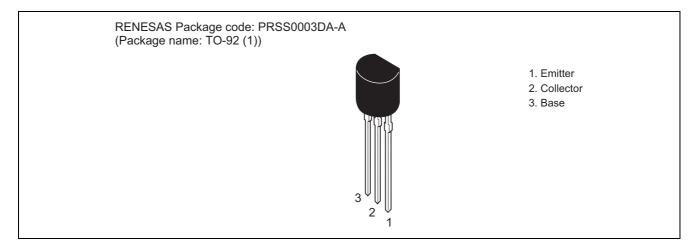
Silicon NPN Epitaxial

REJ03G1611-0100 Rev.1.00 Nov 28, 2007

Features

- Low frequency power amplifier
- Complementary pair with HIT8550-N

Outline



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	45	V
Collector to emitter voltage	V_{CEO}	25	V
Emitter to base voltage	V_{EBO}	6	V
Collector current	I _C	0.7	A
Collector peak current	I _{C (peak)} Note	1.0	A
Collector power dissipation	Pc	0.625	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

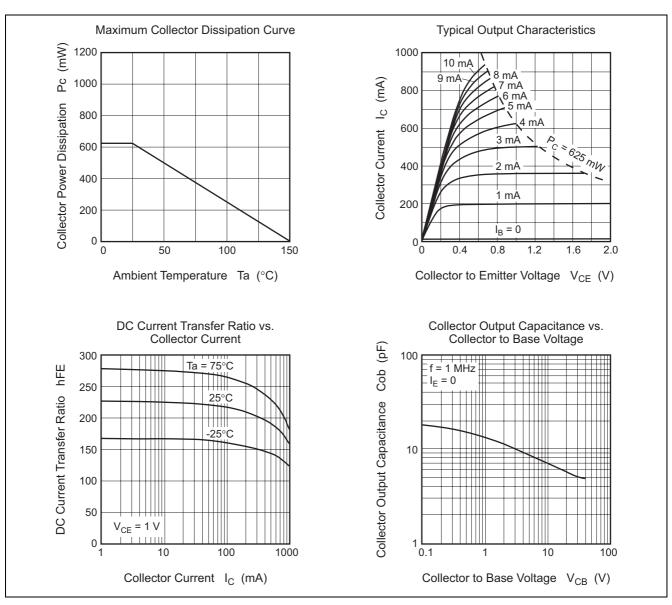
Note: PW ≤ 10 ms, Duty cycle ≤ 20%

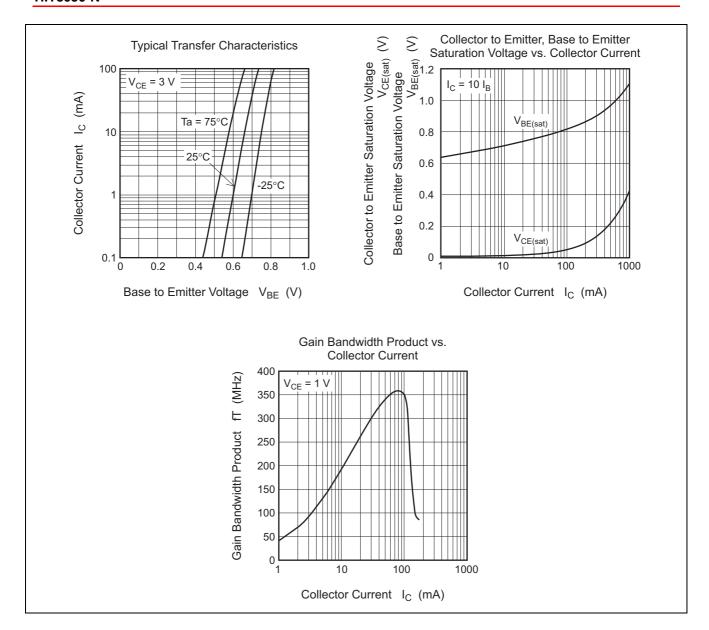
Electrical Characteristics

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

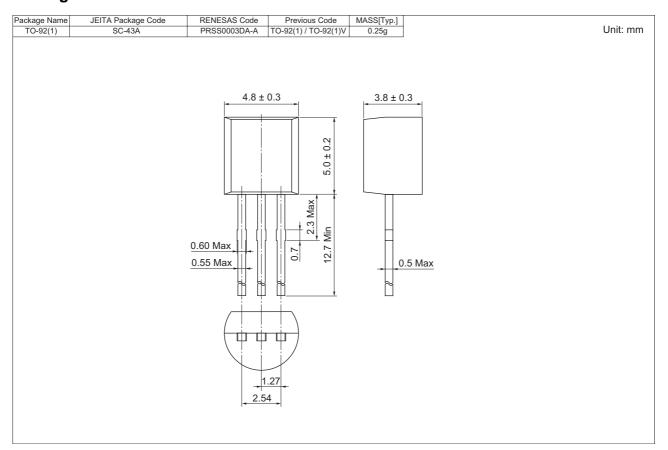
Item	Symbol	Min.	Тур	Max.	Unit	Test Conditions
Collector to base breakdown voltage	V _{(BR)CBO}	45	_	_	V	$I_C = 10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	V _{(BR)CEO}	25	_	_	V	I _C = 1 mA, R _{BE} = ∞
Emitter to base breakdown voltage	V _{(BR)EBO}	6	_	_	V	$I_E = 10 \mu A, I_C = 0$
Collector cutoff current	I _{CBO}	_	_	500	nA	$V_{CB} = 45 \text{ V}, I_{E} = 0$
Emitter cutoff current	I _{EBO}	_	_	500	nA	V _{EB} = 6 V
DC current transfer ratio	h _{FE1}	45	_	_	_	$V_{CE} = 1 \text{ V}, I_{C} = 5 \text{ mA}$
DC current transfer ratio	h _{FE2}	85	_	330	_	V _{CE} = 1 V, I _C = 100 mA
Collector to emitter saturation voltage	V _{CE(sat)}	_	_	0.5	V	I _C = 500 mA, I _B = 50 mA
Base to emitter voltage	V _{BE(on)}	_	_	1.0	V	$V_{CE} = 3 \text{ V}, I_{C} = 10 \text{ mA}$

Main Characteristics





Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container			
HIT8050-N-EQ	2500 pcs.	Bulk, Vinyl Bag			
HIT8050-N-TZ-EQ	2500 pcs.	Hold Box, Radial Taping			

Note: This product is designed for consumer use and not for automotive.

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- Renesas lechnology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Notes:

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