

HIT8550-N

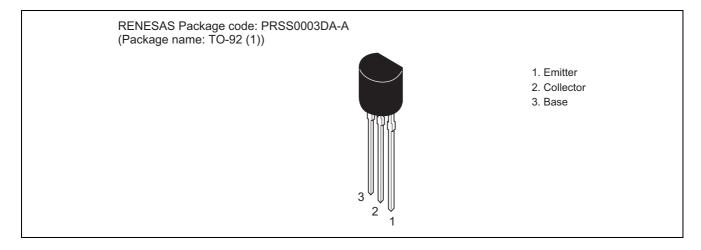
Silicon PNP Epitaxial

REJ03G1610-0100 Rev.1.00 Nov 28, 2007

Features

- Low frequency power amplifier
- Complementary pair with HIT8050-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	А
Collector peak current	I _{C (peak)} Note	–1	A
Collector power dissipation	Pc	0.625	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

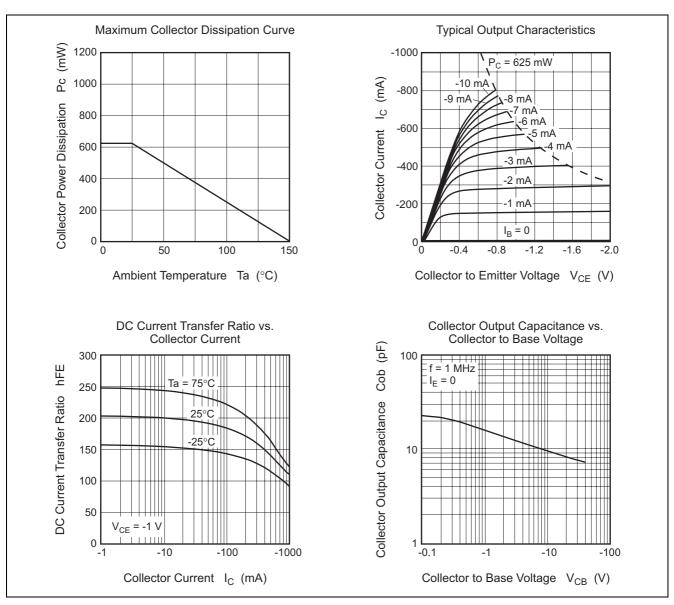
Note: PW ≤ 10 ms, Duty cycle ≤ 20%

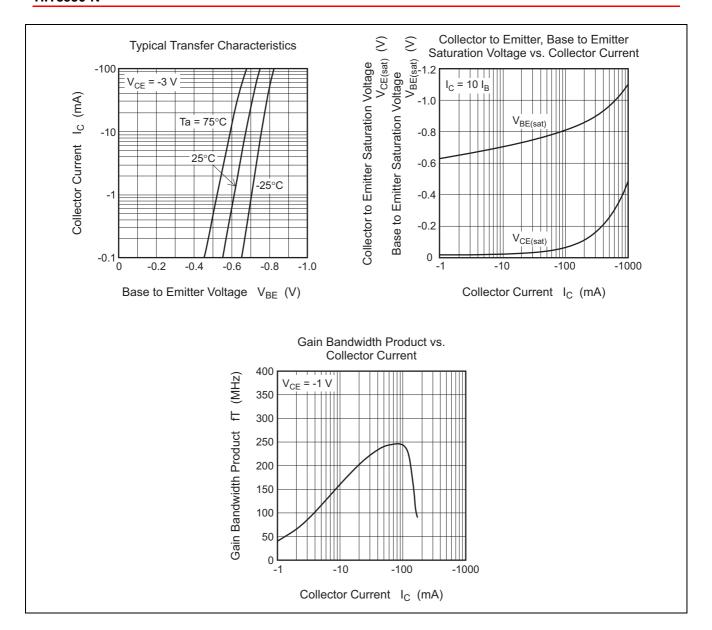
Electrical Characteristics

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

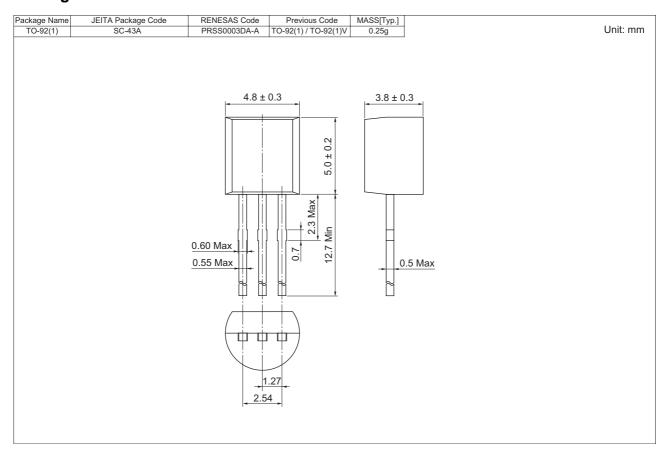
Item	Symbol	Min.	Тур	Max.	Unit	Test Conditions
Collector to base breakdown voltage	V _{(BR)CBO}	-4 5	_	_	V	$I_C = -10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-25	_	_	V	I _C = −1 mA, R _{BE} = ∞
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-6	_	_	V	$I_E = -10 \mu A, I_C = 0$
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	_	$V_{CE} = -1 \text{ V}, I_{C} = -100 \text{ mA}$
Collector to emitter saturation voltage	V _{CE(sat)}		_	-0.5	V	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$
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	
HIT8550-N-EQ	2500 pcs.	Bulk, Vinyl Bag	
HIT8550-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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