

HIT8550-N

Silicon PNP Epitaxial

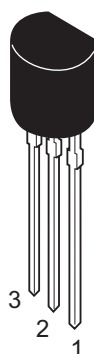
REJ03G1610-0100
Rev.1.00
Nov 28, 2007

Features

- Low frequency power amplifier
- Complementary pair with HIT8050-N

Outline

RENESAS Package code: PRSS0003DA-A
(Package name: TO-92 (1))



1. Emitter
2. Collector
3. Base

Absolute Maximum Ratings

(Ta = 25°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	A
Collector power dissipation	P_C	0.625	W
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

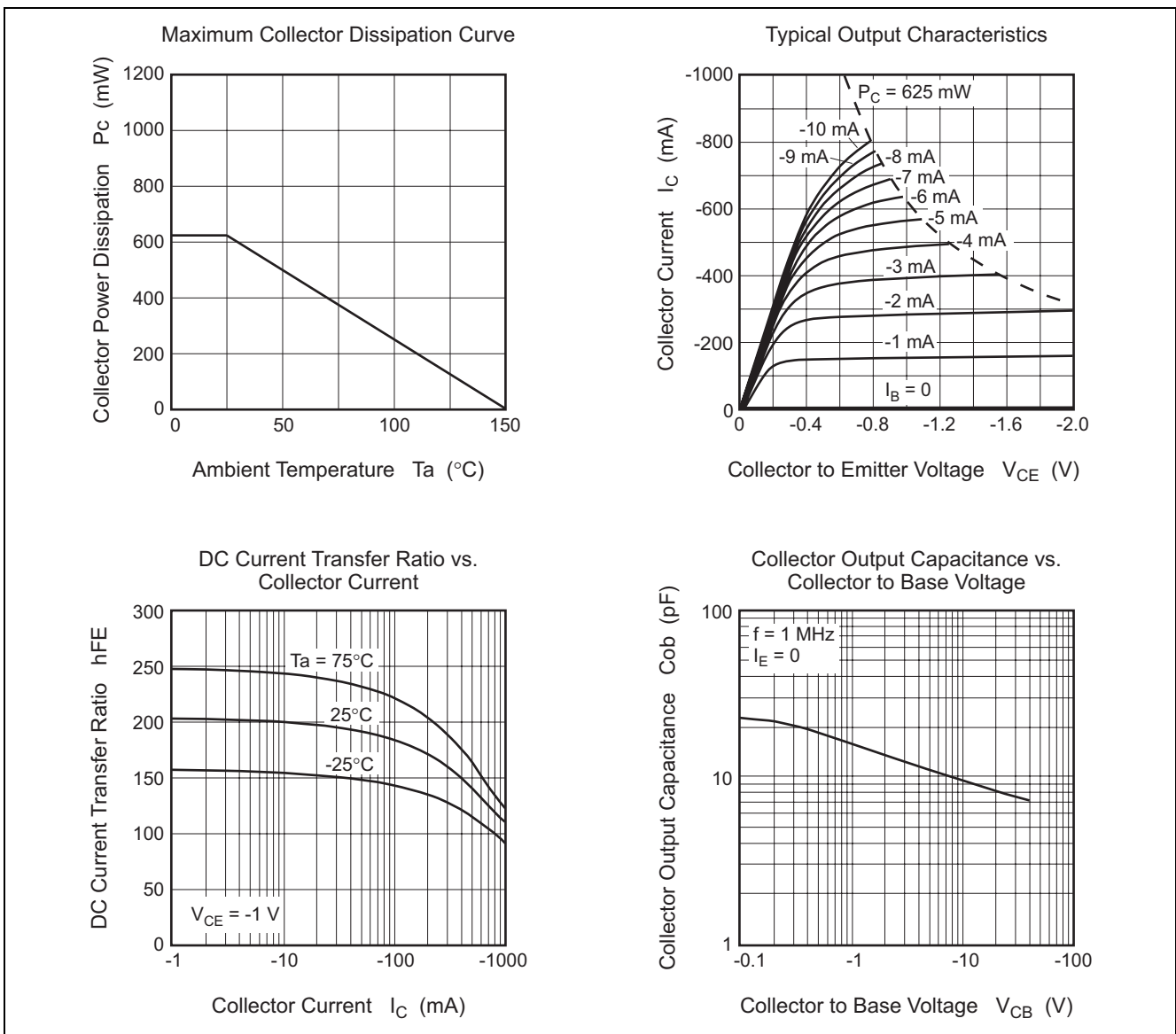
Note: PW ≤ 10 ms, Duty cycle ≤ 20%

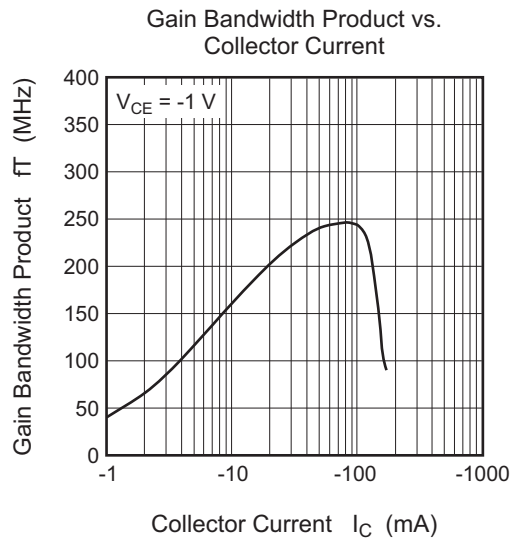
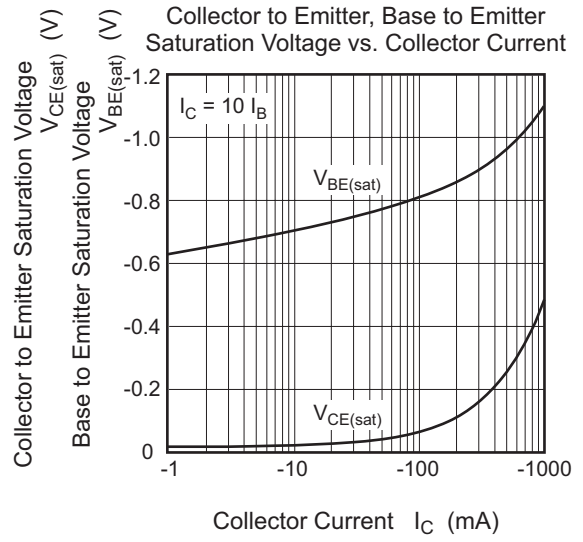
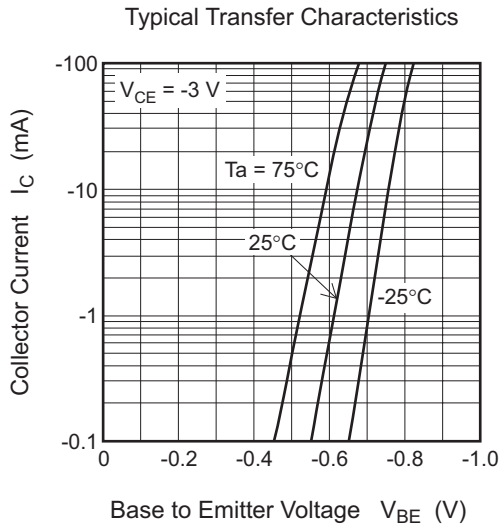
Electrical Characteristics

(Ta = 25°C)

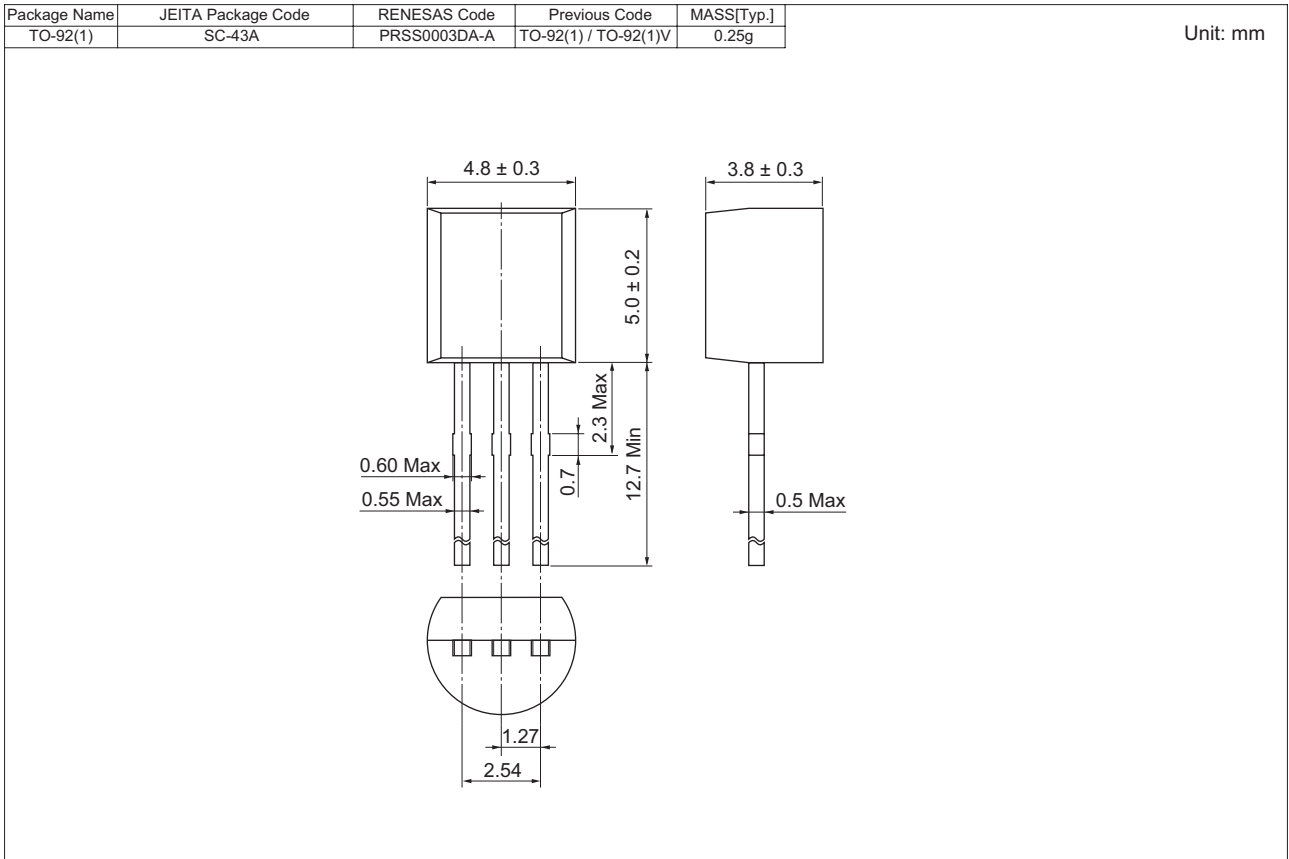
Item	Symbol	Min.	Typ	Max.	Unit	Test Conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-45	—	—	V	$I_C = -10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-25	—	—	V	$I_C = -1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-6	—	—	V	$I_E = -10 \mu A, I_C = 0$
Collector cutoff current	I_{CBO}	—	—	-500	nA	$V_{CB} = -45 \text{ V}, I_E = 0$
Emitter cutoff current	I_{EBO}	—	—	-500	nA	$V_{EB} = -6 \text{ V}$
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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