

# HIT673

## Silicon PNP Epitaxial

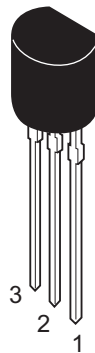
REJ03G1608-0100  
Rev.1.00  
Nov 28, 2007

### Features

- Low frequency power amplifier
- Complementary pair with HIT1213

### 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	$V_{CBO}$	-50	V
Collector to emitter voltage	$V_{CEO}$	-50	V
Emitter to base voltage	$V_{EBO}$	-5	V
Collector current	$I_C$	-0.5	A
Collector peak current	$I_{C(peak)}$ <sup>Note</sup>	-1.0	A
Collector power dissipation	$P_C$	0.4	W
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

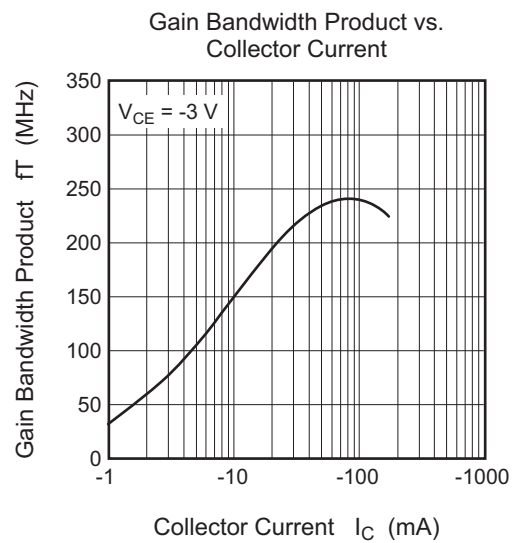
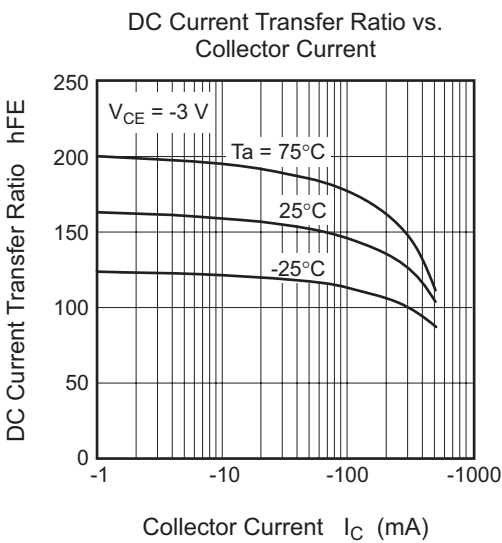
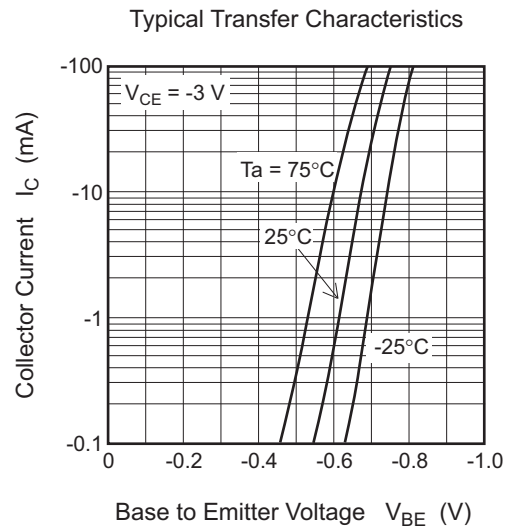
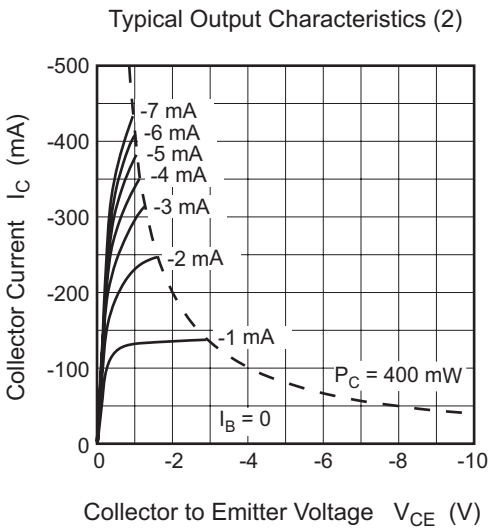
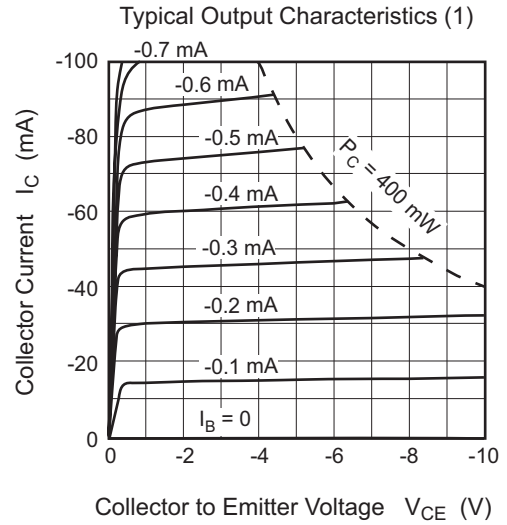
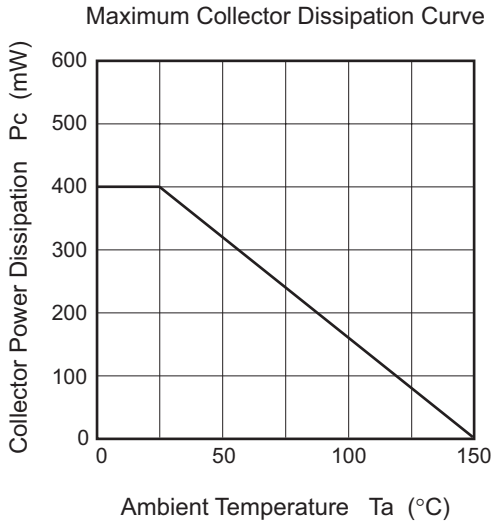
Note: PW ≤ 10 ms, Duty cycle ≤ 20%

## Electrical Characteristics

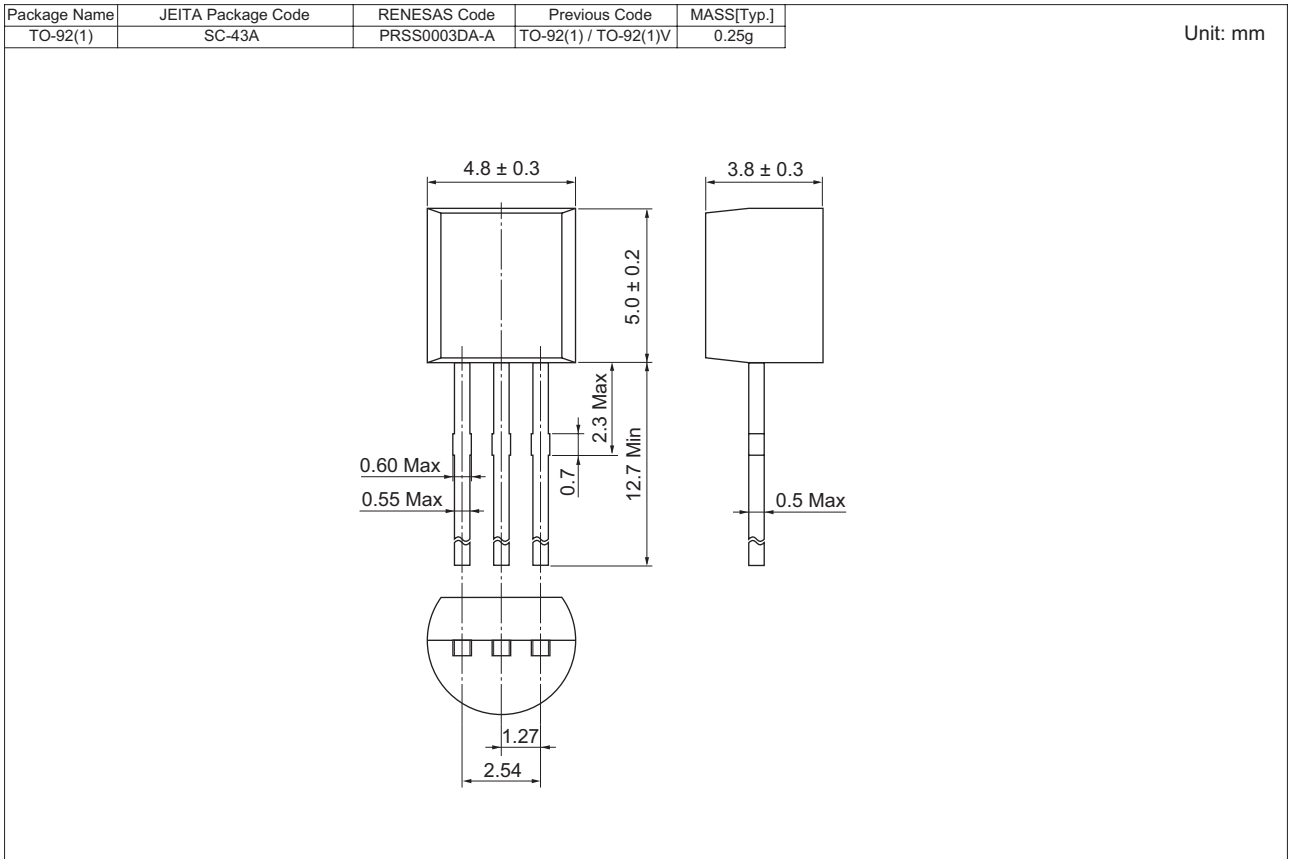
(Ta = 25°C)

Item	Symbol	Min.	Typ	Max.	Unit	Test Conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-50	—	—	V	$I_C = -10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-50	—	—	V	$I_C = -0.1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-5	—	—	V	$I_E = -10 \mu A, I_C = 0$
Collector cutoff current	$I_{CBO}$	—	—	-500	nA	$V_{CB} = -50 \text{ V}, I_E = 0$
Emitter cutoff current	$I_{EBO}$	—	—	-500	nA	$V_{EB} = -5 \text{ V}$
DC current transfer ratio	$h_{FE1}$	60	—	320	—	$V_{CE} = -3 \text{ V}, I_C = -10 \text{ mA}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	-0.6	V	$I_C = -150 \text{ mA}, I_B = -15 \text{ mA}$
Base to emitter voltage	$V_{BE(on)}$	—	—	-1.2	V	$V_{CE} = -3 \text{ V}, I_C = -10 \text{ mA}$

Main Characteristics



## Package Dimensions



## Ordering Information

Part Name	Quantity	Shipping Container
HIT673-EQ	2500 pcs.	Bulk, Vinyl Bag
HIT673-TZ-EQ	2500 pcs.	Hold Box, Radial Taping

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

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