

# 2SA673, 2SA673A

Silicon PNP Epitaxial

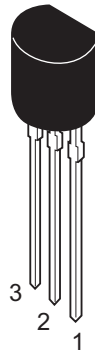
REJ03G0626-0200  
(Previous ADE-208-125)  
Rev.2.00  
Aug.10.2005

## Application

- Low frequency amplifier
- Complementary pair with 2SC1213 and 2SC1213A

## 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	2SA673	2SA673A	Unit
Collector to base voltage	$V_{CBO}$	-35	-50	V
Collector to emitter voltage	$V_{CEO}$	-35	-50	V
Emitter to base voltage	$V_{EBO}$	-4	-4	V
Collector current	$I_C$	-500	-500	mA
Collector power dissipation	$P_C$	400	400	mW
Junction temperature	$T_j$	150	150	°C
Storage temperature	$T_{stg}$	-55 to +150	-55 to +150	°C

## Electrical Characteristics

(Ta = 25°C)

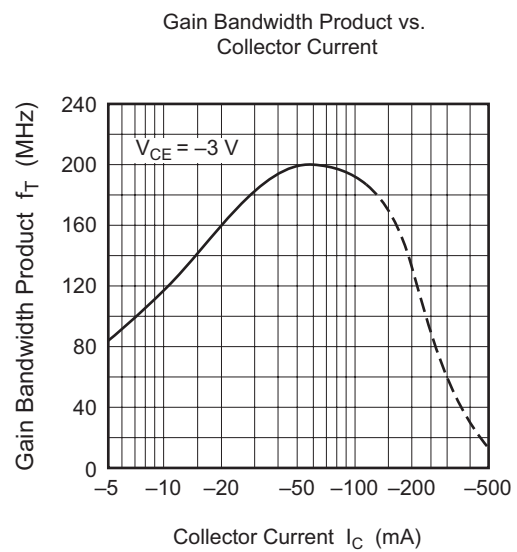
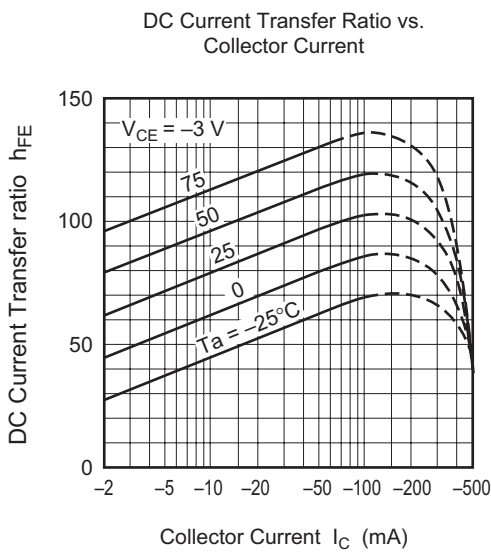
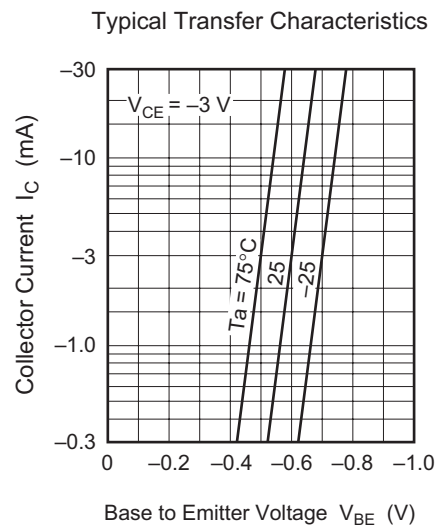
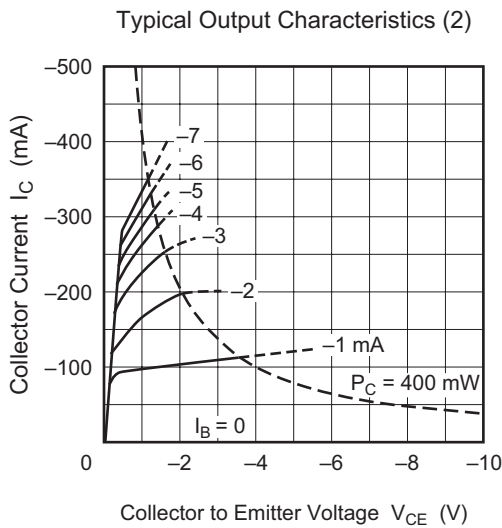
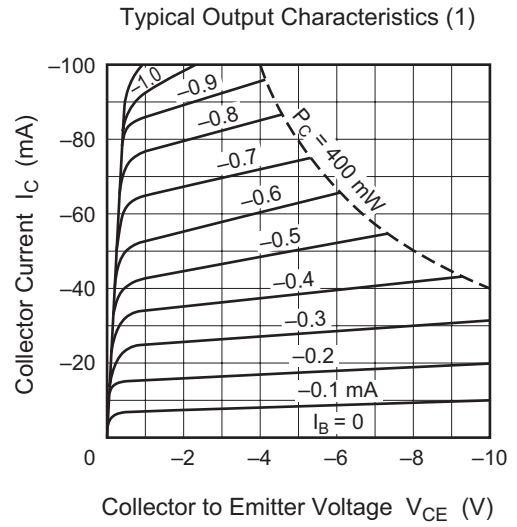
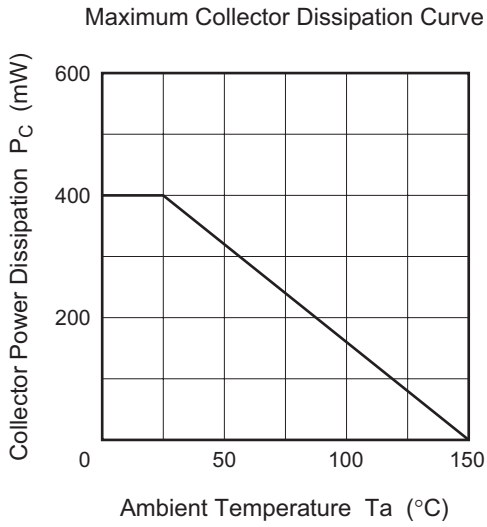
Item	Symbol	2SA673			2SA673A			Unit	Test conditions
		Min	Typ	Max	Min	Typ	Max		
Collector to base breakdown voltage	$V_{(BR)CBO}$	-35	—	—	-50	—	—	V	$I_C = -10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-35	—	—	-50	—	—	V	$I_C = -1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-4	—	—	-4	—	—	V	$I_E = -10 \mu A, I_C = 0$
Collector cutoff current	$I_{CBO}$	—	—	-0.5	—	—	-0.5	$\mu A$	$V_{CB} = -20 \text{ V}, I_E = 0$
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	-0.2	-0.6	—	-0.2	-0.6	V	$I_C = -150 \text{ mA}, I_B = -15 \text{ mA}^{*2}$
DC current transfer ratio	$h_{FE}^{*1}$	60	—	320	60	—	320		$V_{CE} = -3 \text{ V}, I_C = -10 \text{ mA}$
DC current transfer ratio	$h_{FE}$	10	—	—	10	—	—		$V_{CE} = -3 \text{ V}, I_C = -500 \text{ mA}^{*2}$
Base to emitter voltage	$V_{BE}$	—	-0.64	—	—	-0.64	—	V	$V_{CE} = -3 \text{ V}, I_C = -10 \text{ mA}$

Notes: 1. The 2SA673 and 2SA673A are grouped by  $h_{FE}$  as follows.

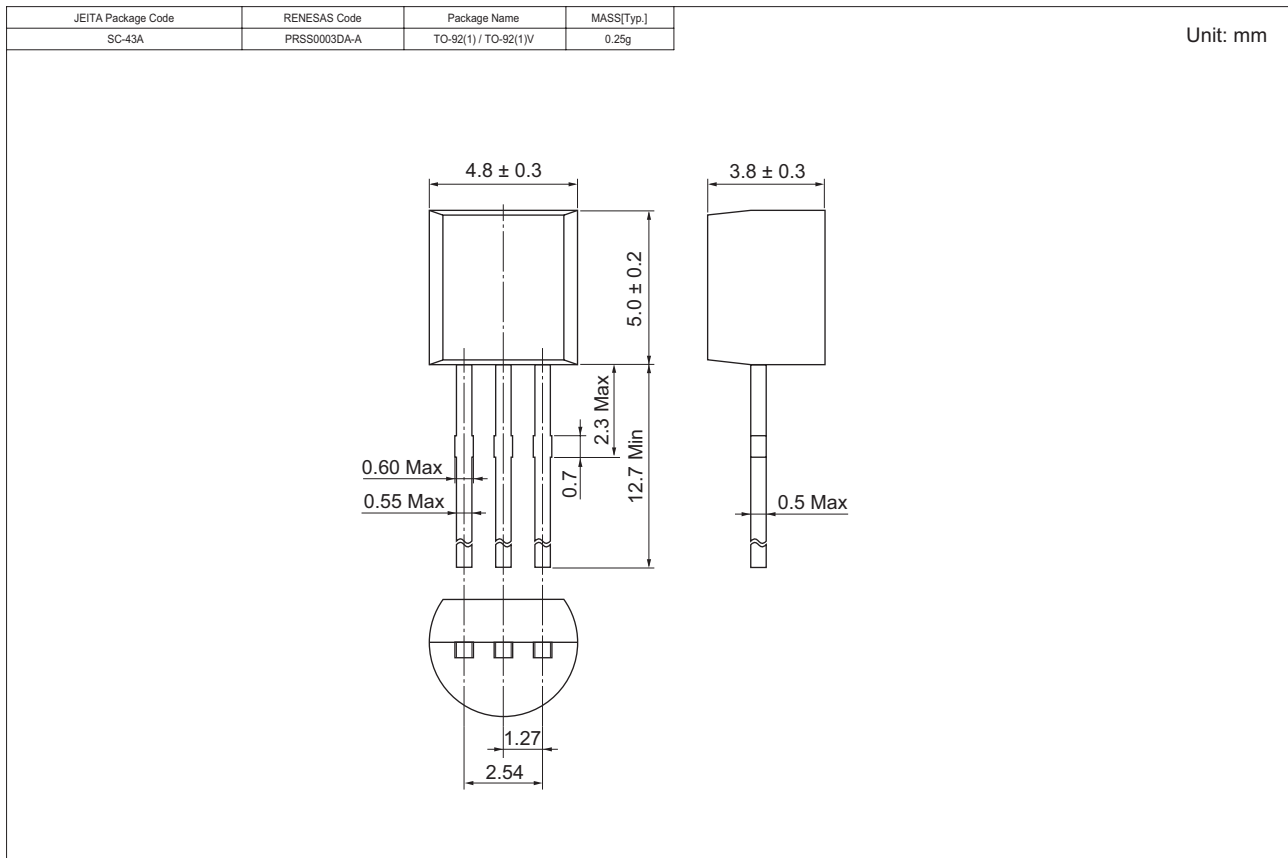
2. Pulse test

B	C	D
60 to 120	100 to 200	160 to 320

### Main Characteristics



## Package Dimensions



## Ordering Information

Part Name	Quantity	Shipping Container
2SA673BTZ-E 2SA673CTZ-E 2SA673DTZ-E 2SA673ABTZ-E 2SA673ACTZ-E 2SA673ADTZ-E	2500	Hold Box, Radial Taping

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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