

Silicon PNP Epitaxial WW.100Y.COM.TW

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

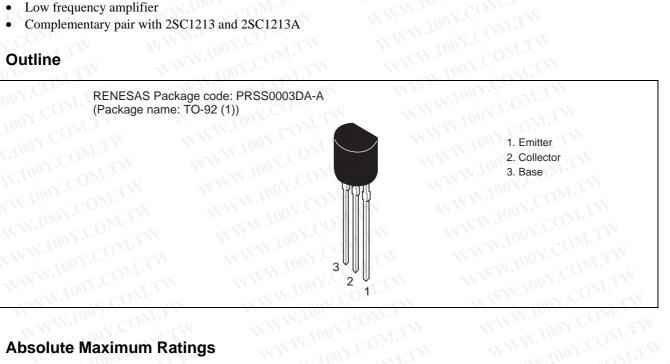
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# V.100Y.COM.TW Application

- Low frequency amplifier
- Complementary pair with 2SC1213 and 2SC1213A ٠

## Outline



# Absolute Maximum Ratings

Item	Symbol	2SA673	2SA673A	Unit
Collector to base voltage	V <sub>CBO</sub>	-35	-50	V.10° V. CO
Collector to emitter voltage	V <sub>CEO</sub>	-35	-50	10 V
Emitter to base voltage	V <sub>EBO</sub>	-4.02.00	-4	V
Collector current	lc	-500	-500	mA
Collector power dissipation	Pc	400	400	mW
Junction temperature	Tj	150	150	°C
Storage temperature	Tstg	-55 to +150	-55 to +150	°C

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# **Electrical Characteristics**

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Item	Symbol	Min	2SA673 Тур	Max	Min	2SA673A Typ	Max	Unit	Test conditions
Collector to base preakdown voltage	V <sub>(BR)CBO</sub>	-35		-7	-50		COM	V	$I_{\rm C} = -10 \ \mu {\rm A}, \ I_{\rm E} = 0$
Collector to emitter preakdown voltage	V <sub>(BR)CEO</sub>	-35	1.11		-50	100 <sup>5</sup>		V	$I_{\rm C} = -1$ mA, $R_{\rm BE} = \infty$
Emitter to base preakdown voltage	V <sub>(BR)EBO</sub>	.–4	WT.M		-4	W.100	<u> </u>	V	$I_{\rm E} = -10 \ \mu {\rm A}, \ I_{\rm C} = 0$
Collector cutoff current	I <sub>CBO</sub>	<u>orr</u>	MA.	-0.5	<u></u>	1.10	-0.5	μA	$V_{CB} = -20 \text{ V}, I_E = 0$
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	00 <u>×</u> .0	-0.2	-0.6	-4	-0.2	-0.6	COVI.	$I_{C} = -150 \text{ mA},$ $I_{B} = -15 \text{ mA}^{*2}$
DC current transfer ratio	h <sub>FE</sub> * <sup>1</sup>	60	COM	320	60	N4N	320	.COM	$V_{CE} = -3 V,$ $I_{C} = -10 mA$
DC current transfer ratio	h <sub>FE</sub>	10	<u>4.00</u>	I.TW	10	1 <u>1</u> 1	M.100	Y.CC	$V_{CE} = -3 V,$ $I_{C} = -500 \text{ mA}^{*2}$
Base to emitter voltage	V <sub>BE</sub>	V <del>4.</del> 10	-0.64		<li>M</li>	-0.64	WHIT	V.C	$V_{CE} = -3 V,$ I <sub>C</sub> =-10 mA

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Notes: 1. The 2SA673 and 2SA673A are grouped by  $h_{FE}$  as follows. W.100Y.CON

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

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(mW)

Ро

Power Dissipation

Collector

0

-500

-300

-200

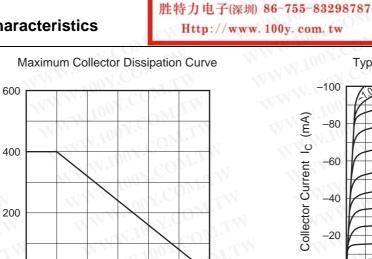
-100

0

(mA) -400

Collector Current Ic

## **Main Characteristics**



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Ambient Temperature Ta (°C)

Typical Output Characteristics (2)

100

-1 mA

-6

 $P_{C} = 400 \text{ mW}$ 

-8

-10

150

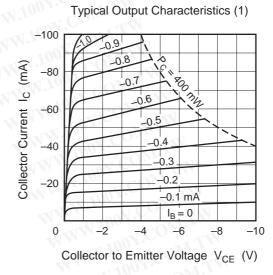
50

-6

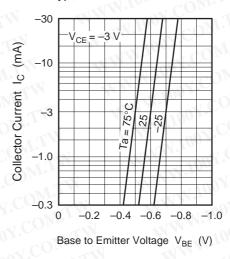
 $I_B = 0$ 

-4

-2

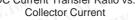


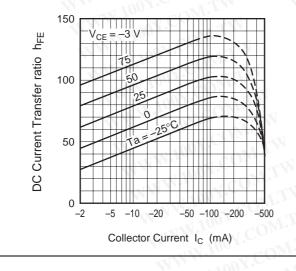
**Typical Transfer Characteristics** 

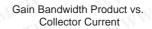


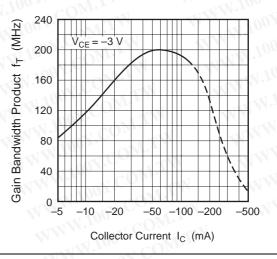


Collector to Emitter Voltage V<sub>CE</sub> (V)



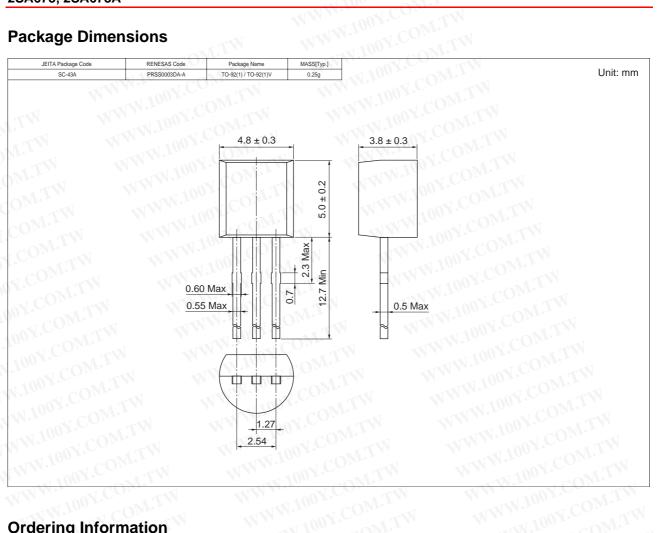








## Package Dimensions



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## **Ordering Information**

Ordering Inform	ation	
Part Name	Quantity	Shipping Container
2SA673BTZ-E	2500	Hold Box, Radial Taping
2SA673CTZ-E	COMMUN W	WW MY COM TW WW MANDY COM
2SA673DTZ-E	COM.1	TWY LONG CONTRACT TANKING CO
2SA673ABTZ-E	Y. WI.IW P	100X. M.TV W.100
2SA673ACTZ-E	N.COM	WWWW. ODY.COM TW WWWW ODY.C
2SA673ADTZ-E	N.I.	W.W. COM.

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