# 2SA673, 2SA673A

Silicon PNP Epitaxial

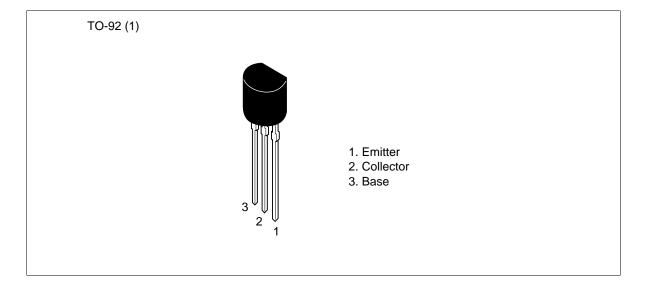
# **HITACHI**

ADE-208-125 (Z) 1st. Edition Mar. 2001

### **Application**

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

#### Outline





## 2SA673, 2SA673A

## **Absolute Maximum Ratings** ( $Ta = 25^{\circ}C$ )

Item	Symbol	2SA673	2SA673A	Unit
Collector to base voltage	$V_{CBO}$	<del>-</del> 35	<b>–</b> 50	V
Collector to emitter voltage	V <sub>CEO</sub>	<b>–</b> 35	<b>-</b> 50	V
Emitter to base voltage	$V_{EBO}$	-4	-4	V
Collector current	I <sub>c</sub>	-500	-500	mA
Collector power dissipation	P <sub>c</sub>	400	400	mW
Junction temperature	Tj	150	150	°C
Storage temperature	Tstg	-55 to +150	-55 to +150	°C

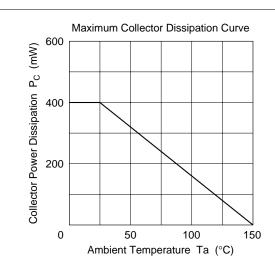
#### **Electrical Characteristics** ( $Ta = 25^{\circ}C$ )

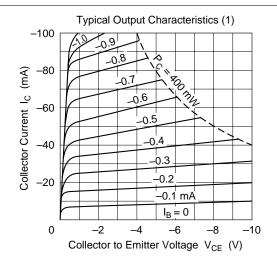
		2SA6	2SA673 2SA673A						
Item	Symbol	Min	Тур	Max	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-35	_	_	-50	_	_	V	$I_{\rm C} = -10 \; \mu A, \; I_{\rm E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-35	_	_	-50	_	_	٧	$I_{\rm C} = -1$ mA, $R_{\rm BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-4	_	_	-4	_	_	٧	$I_{E} = -10 \mu\text{A},  I_{C} = 0$
Collector cutoff current	I <sub>CBO</sub>	_	_	-0.5	_	_	-0.5	μΑ	$V_{CB} = -20 \text{ V}, I_{E} = 0$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	-0.2	-0.6	_	-0.2	-0.6	V	$I_{\rm C} = -150 \text{ mA},$ $I_{\rm B} = -15 \text{ mA*}^2$
DC current trnsfer ratio	h <sub>FE</sub> *1	60	_	320	60	_	320		$V_{CE} = -3 \text{ V},$ $I_{C} = -10 \text{ mA}$
DC current trnsfer ratio	h <sub>FE</sub>	10	_	_	10	_	_		$V_{CE} = -3 \text{ V},$ $I_{C} = -500 \text{ mA}^{*2}$
Base to emitter voltage	$V_{BE}$	_	-0.64	. —	_	-0.64	_	V	$V_{CE} = -3 \text{ V},$ $I_{C} = -10 \text{ mA}$

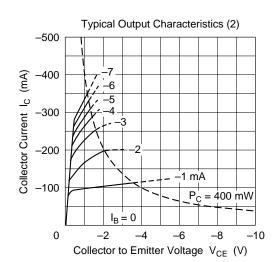
Notes: 1. The 2SA673 and 2SA673A are grouped by  $h_{\rm FE}$  as follows.

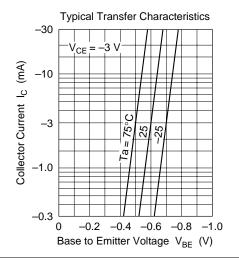
2. Pulse test

В	С	D
60 to 120	100 to 200	160 to 320

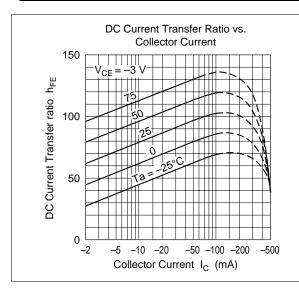


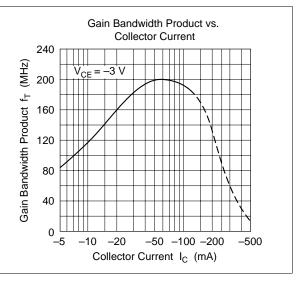




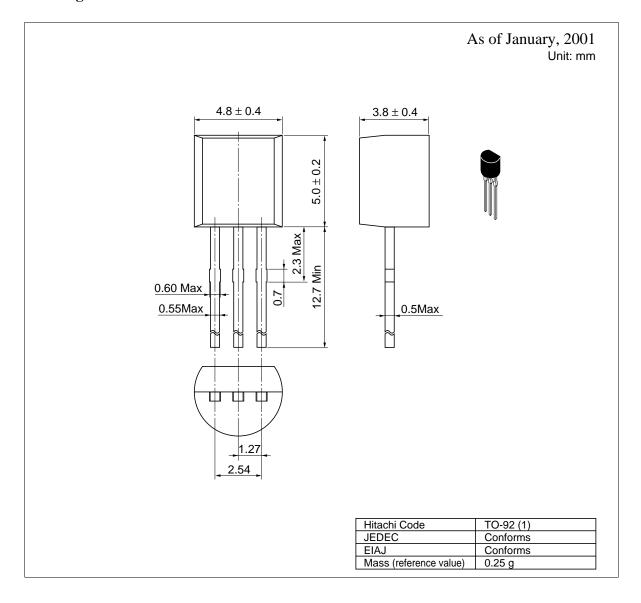


## 2SA673, 2SA673A





#### **Package Dimensions**



#### **Cautions**

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