
2SA673, 2SA673A

Silicon PNP Epitaxial

HITACHI

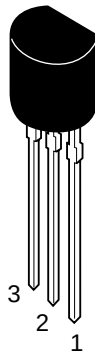
ADE-208-125 (Z)
1st. Edition
Mar. 2001

Application

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

Outline

TO-92 (1)



1. Emitter
2. Collector
3. Base

2SA673, 2SA673A

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	$I_C = -10\text{ }\mu\text{A}$, $I_E = 0$
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	$I_E = -10\text{ }\mu\text{A}$, $I_C = 0$
Collector cutoff current	I_{CBO}	—	—	-0.5	—	—	-0.5	μA	$V_{CB} = -20\text{ V}$, $I_E = 0$
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 trnsfer ratio	h_{FE}^{*1}	60	—	320	60	—	320		$V_{CE} = -3\text{ V}$, $I_C = -10\text{ mA}$
DC current trnsfer 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