2SA1390

Silicon PNP Epitaxial

HITACHI

ADE-208-1017 (Z) 1st. Edition Mar. 2001

Application

Low frequency amplifier

Outline

SPAK



- 1. Emitter
- 2. Collector
- 3. Base



2SA1390

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	-35	V
Collector to emitter voltage	V _{CEO}	– 35	V
Emitter to base voltage	V_{EBO}	-4	V
Collector current	I _c	-500	mA
Collector power dissipation	P _c	300	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

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

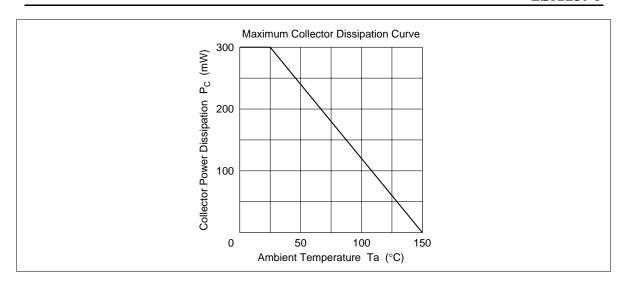
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-35	_	_	V	$I_{c} = -10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-35	_	_	V	$I_{C} = -1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-4	_	_	V	$I_{E} = -10 \ \mu A, \ I_{C} = 0$
Collector cutoff current	I_{CBO}	_	_	-0.5	μΑ	$V_{CB} = -20 \text{ V}, I_{E} = 0$
Collector to emitter saturation voltage	$V_{CE(sat)}$	_	-0.2	-0.6	V	$I_{\rm C} = -150 \text{ mA}, I_{\rm B} = -15 \text{ mA}^{*2}$
DC current transfer ratio	h _{FE1} *1	60	_	320		$V_{CE} = -3 \text{ V}, I_{C} = -10 \text{ mA}$
DC current transfer ratio	h _{FE2}	10	_	_		$V_{CE} = -3 \text{ V}, I_{C} = -500 \text{ mA}^{*2}$
Base to emitter voltage	V_{BE}	_	-0.64	_	V	$V_{CE} = -3 \text{ V}, I_{C} = -10 \text{ mA}$

Notes: 1. The 2SA1390 is grouped by h_{FE1} as follows.

2. Pulse test

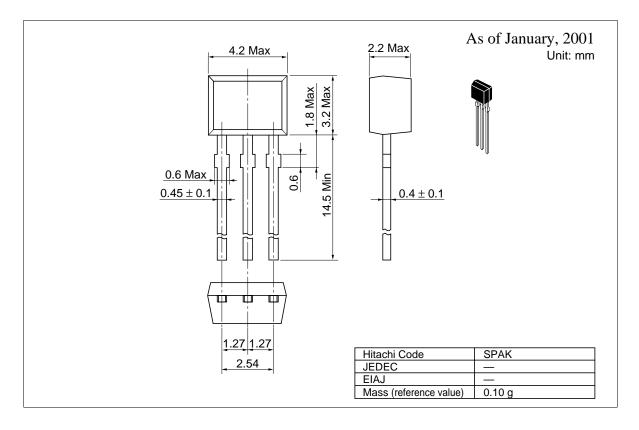
В	С	D
60 to 120	100 to 200	160 to 320

See characteristic curves of 2SA673.



2SA1390

Package Dimensions



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