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2SD468

Silicon NPN Epitaxial

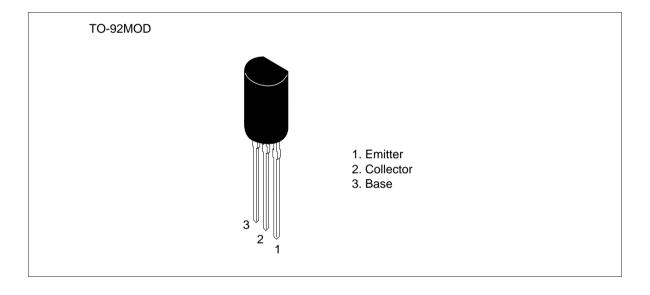


ADE-208-1135 (Z) 1st. Edition Mar. 2001

Application

- Low frequency power amplifier
- Complementary pair with 2SB562

Outline



2SD468

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	25	V
Collector to emitter voltage	V_{CEO}	20	V
Emitter to base voltage	V_{EBO}	5	V
Collector current	I _c	1.0	А
Collector peak current	İ _{C(peak)}	1.5	А
Collector power dissipation	P _c	0.9	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

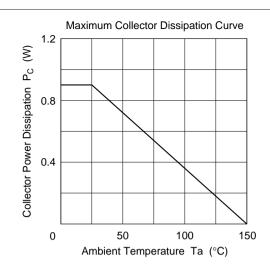
Electrical Characteristics ($Ta = 25^{\circ}C$)

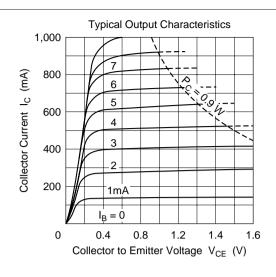
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	25	_	_	V	$I_{c} = 10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	20	_	_	V	I_{C} = 1 mA, R_{BE} = ∞
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	_	_	V	$I_E = 10 \mu A, I_C = 0$
Collector cutoff current	I _{CBO}	_	_	1.0	μΑ	$V_{CB} = 20 \text{ V}, I_{E} = 0$
DC current transfer ratio	h _{FE} *1	85	_	240		$V_{CE} = 2 \text{ V}, I_{C} = 0.5 \text{ A}^{*2}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	_	0.2	0.5	V	$I_{\rm C} = 0.8 \text{ A}, I_{\rm B} = 0.08 \text{ A}^{*2}$
Base to emitter voltage	V_{BE}	_	0.79	1.0	V	$V_{CE} = 2 \text{ V}, I_{C} = 0.5 \text{ A}^{*2}$
Gain bandwidth product	f _T	_	190	_	MHz	$V_{CE} = 2 \text{ V}, I_{C} = 0.5 \text{ A}^{*2}$
Collector output capacitance	Cob	_	22	_	pF	$V_{CB} = 10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$

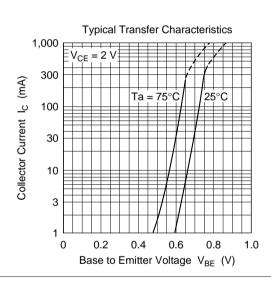
Notes: 1. The 2SD468 is grouped by h_{FE} as follows.

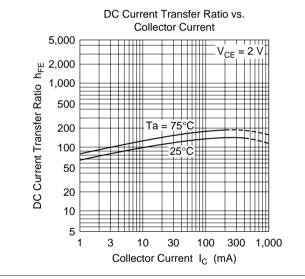
2. Pulse test

В	С
85 to170	120 to 240



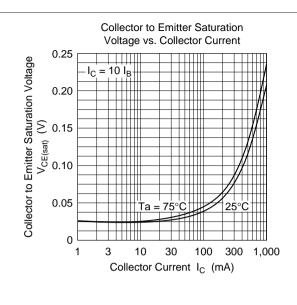


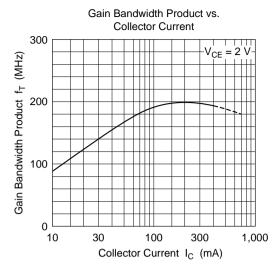


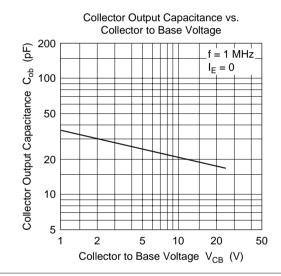


2

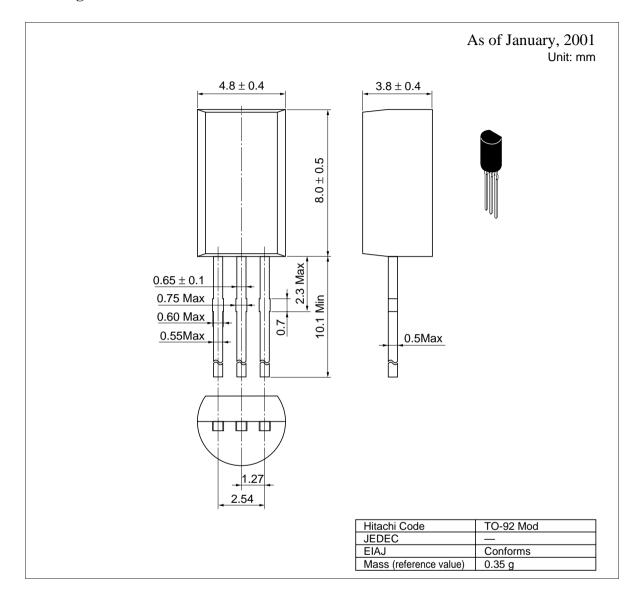
2SD468







Package Dimensions



5

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