2SD468

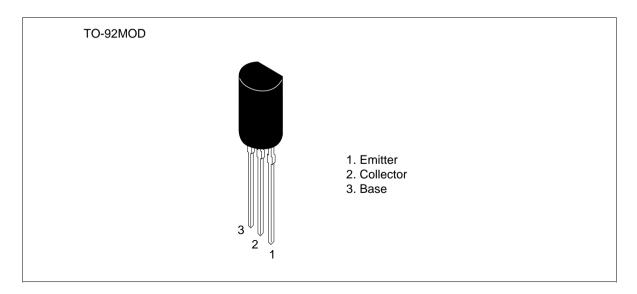
Silicon NPN Epitaxial

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Application

- Low frequency power amplifier
- Complementary pair with 2SB562

Outline





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	A
Collector peak current	i _{C(peak)}	1.5	A
Collector power dissipation	P _c	0.9	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

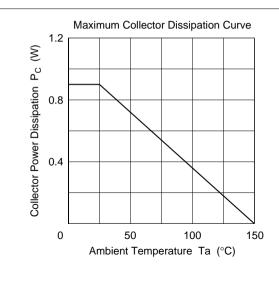
Electrical Characteristics ($Ta = 25^{\circ}C$)

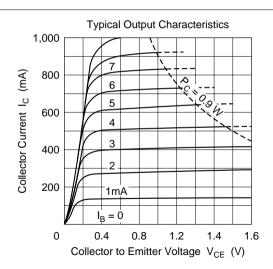
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	25	_	_	V	$I_{c} = 10 \ \mu A, \ I_{e} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	20	_	_	V	$I_{C} = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	_	_	V	$I_{E} = 10 \ \mu A, \ I_{C} = 0$
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	$V_{\text{CE(sat)}}$	_	0.2	0.5	V	$I_C = 0.8 \text{ A}, I_B = 0.08 \text{ A}^{*2}$
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	$V_{CB} = 10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$

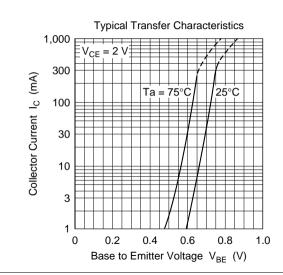
Notes: 1. The 2SD468 is grouped by h_{FE} as follows.

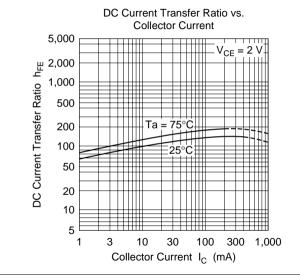
2. Pulse test

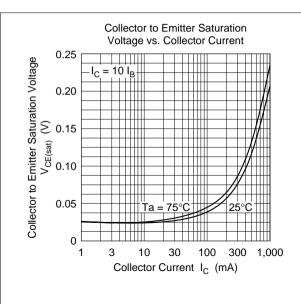
В	С
85 to170	120 to 240

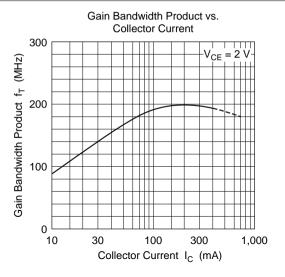


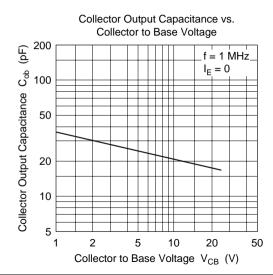




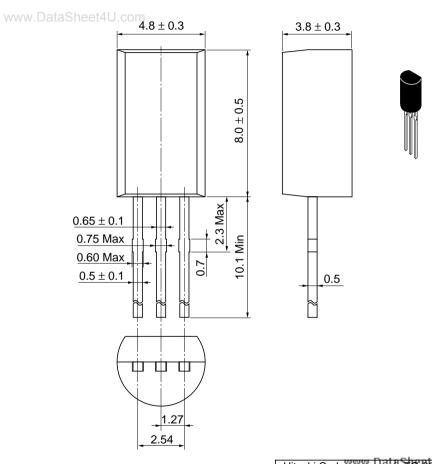








Unit: mm



Hitachi Code	1-10-92 Mod
JEDEC	
EIAJ	Conforms
Weight (reference value)	0.35 g

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Hitachi, Ltd.

Semiconductor & Integrated Circuits.

Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Tel: Tokyo (03) 3270-2111 Fax: (03) 3270-5109

Tel: Tokyo (03) 3270-2111 Fax: (03) 3270-5109

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For further information write to:

Hitachi Semiconductor (America) Inc. 179 East Tasman Drive, San Jose,CA 95134 Tel: <1> (408) 433-1990 Fax: <1>(408) 433-0223 Hitachi Europe GmbH Electronic components Group Dornacher Stra§e 3 D-85622 Feldkirchen, Munich Germany Tel: <49> (89) 9 9180-0

Fax: <49> (89) 9 29 30 00 Hitachi Europe Ltd. Electronic Components Group. Whitebrook Park Lower Cookham Road Maidenhead Berkshire SL6 8YA, United Kingdom

Tel: <44> (1628) 585000 Fax: <44> (1628) 778322 Hitachi Asia Pte. Ltd. 16 Collyer Quay #20-00 Hitachi Tower Singapore 049318 Tel: 535-2100 Fax: 535-1533

Hitachi Asia Ltd. Taipei Branch Office 3F, Hung Kuo Building. No.167, Tun-Hwa North Road, Taipei (105) Tel: <886> (2) 2718-3666 Fax: <886> (2) 2718-8180 Hitachi Asia (Hong Kong) Ltd.
Group III (Electronic Components)
7/F., North Tower, World Finance Centre,
Harbour City, Canton Road, Tsim Sha Tsui,
Kowloon, Hong Kong
Tel: <852> (2) 735 9218

Fax: <852> (2) 735 9218 Fax: <852> (2) 730 0281 Telex: 40815 HITEC HX

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