2SB861

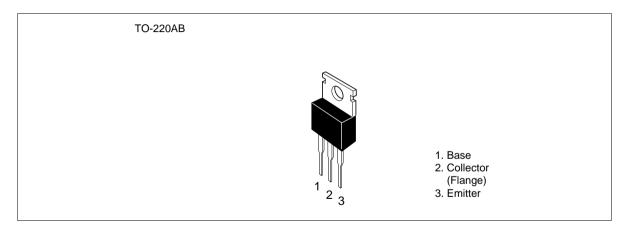
Silicon PNP Triple Diffused

HITACHI

Application

Low frequency power amplifier color TV vertical deflection output complementary pair with 2SD1138

Outline



Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Rating	Unit
Collector to base voltage	V_{CBO}	-200	V
Collector to emitter voltage	V _{CEO}	-150	V
Emitter to base voltage	V_{EBO}	-6	V
Collector current	I _c	-2	A
Collector peak current	I _{C(peak)}	- 5	A
Collector power dissipation	P _c	1.8	W
	P _c *1	30	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-45 to +150	°C

Note: 1. Value at $T_c = 25^{\circ}C$



2SB861

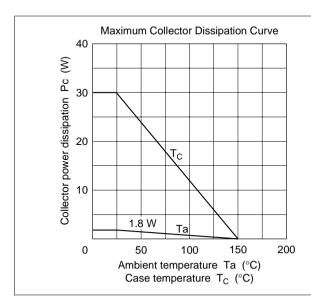
Electrical Characteristics ($Ta = 25^{\circ}C$)

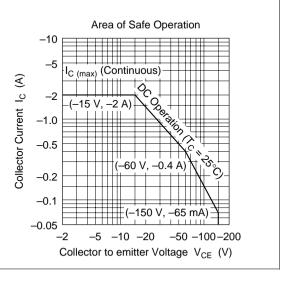
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(BR)CBO}$	-150	_	_	V	$I_{\text{C}} = -50 \text{ mA}, R_{\text{BE}} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-6	_	_	V	$I_{\rm E} = -5 \text{ mA}, I_{\rm C} = 0$
Collector cutoff current	I _{CBO}	_	_	-1	μΑ	$V_{CB} = -120 \text{ V}, I_{E} = 0$
DC current transfer ratio	h _{FE1} *1	60	_	200		$V_{CE} = -4 \text{ V}, I_{C} = -50 \text{ mA}$
	h _{FE2}	60	_	_		$V_{CE} = -10 \text{ V}, I_{C} = -500 \text{ mA}^{*2}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	-3	V	$I_{\rm C} = -500 \text{ mA}, I_{\rm B} = -50 \text{ mA}$
Base to emitter voltage	V _{BE}	_	_	-1	V	$V_{CE} = -4 \text{ V}, I_{C} = -50 \text{ mA}$
Collector output capacitance	Cob	_	30	_	pF	$V_{CB} = -100 \text{ V}, I_{E} = 0,$ f = 1 MHz

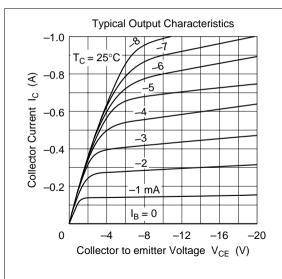
Notes: 1. The 2SB861 is grouped by h_{FE1} as follows.

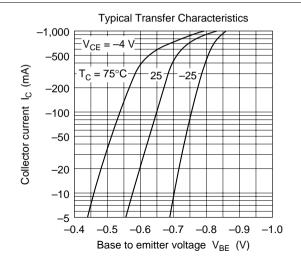
2. Pulse test

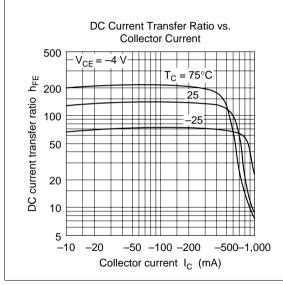
В	С
60 to 120	100 to 200

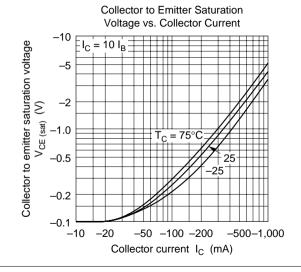




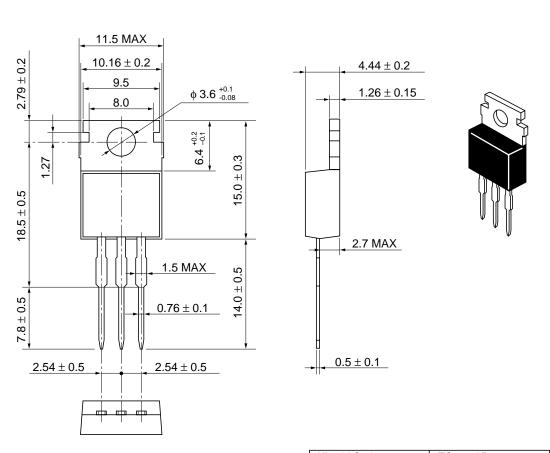








Unit: mm



Hitachi Code	TO-220AB
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	1.8 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

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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) 730 0281 Telex: 40815 HITEC HX

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