Silicon PNP Triple Diffused

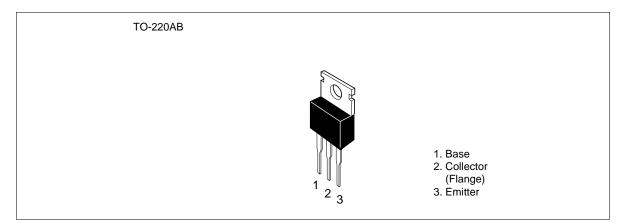
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ADE-208-862 (Z) 1st. Edition Sep. 2000

Application

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

Outline



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

Symbol	Rating	Unit
V _{CBO}	-200	V
V _{CEO}	-150	V
V _{EBO}	-6	V
Ι _c	-2	А
I _{C(peak)}	-5	A
Pc	1.8	W
P _c * ¹	30	W
Tj	150	°C
Tstg	-45 to +150	°C
		V _{CBO} -200 V_{CEO} -150 V_{EBO} -6 I_c -2 I_{c} -5 P_c 1.8 P_c^{*1} 30 Tj 150

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



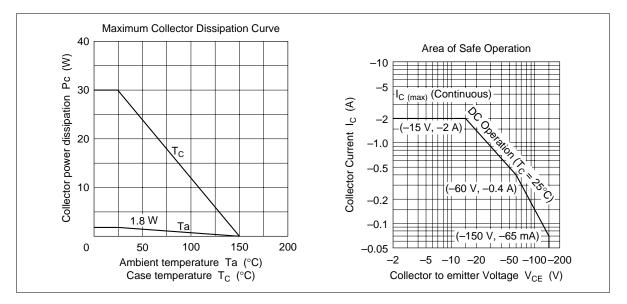
Electrical Characteristics (Ta = 25°C)

ltem	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{\rm (BR)CBO}$	-150	_	—	V	$I_c = -50$ mA, $R_{_{BE}} = \infty$
Emitter to base breakdown voltage	$V_{(\text{BR})\text{EBO}}$	-6	_	—	V	$I_{\rm E} = -5$ mA, $I_{\rm C} = 0$
Collector cutoff current	I _{cbo}	—	_	-1	μA	$V_{CB} = -120 \text{ V}, I_{E} = 0$
DC current transfer ratio	h_{FE1}^{*1}	60	—	200		$V_{ce} = -4 \text{ V}, \text{ I}_{c} = -50 \text{ mA}$
	\mathbf{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	$I_{c} = -500 \text{ mA}, I_{B} = -50 \text{ mA}$
Base to emitter voltage	V_{BE}	_	_	-1	V	$V_{ce} = -4 \text{ V}, \text{ I}_{c} = -50 \text{ mA}$
Collector output capacitance	Cob	—	30	—	pF	$V_{CB} = -100 \text{ V}, \text{ I}_{E} = 0,$ f = 1 MHz

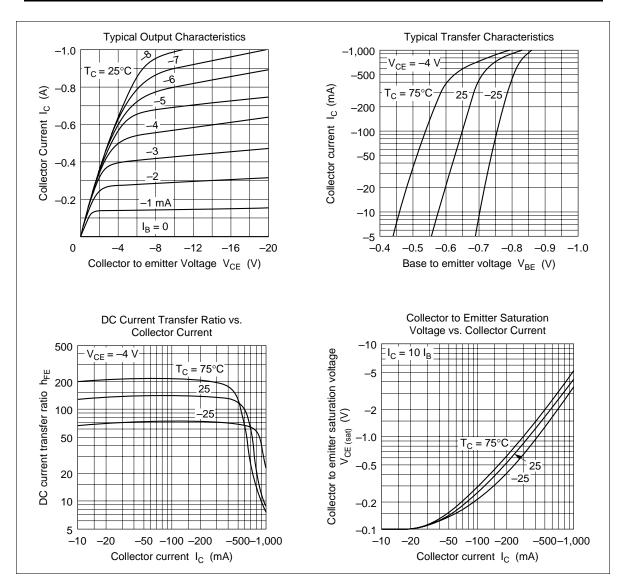
Notes: 1. The 2SB861 is grouped by h_{FE1} as follows.

2. Pulse test

В	С
60 to 120	100 to 200

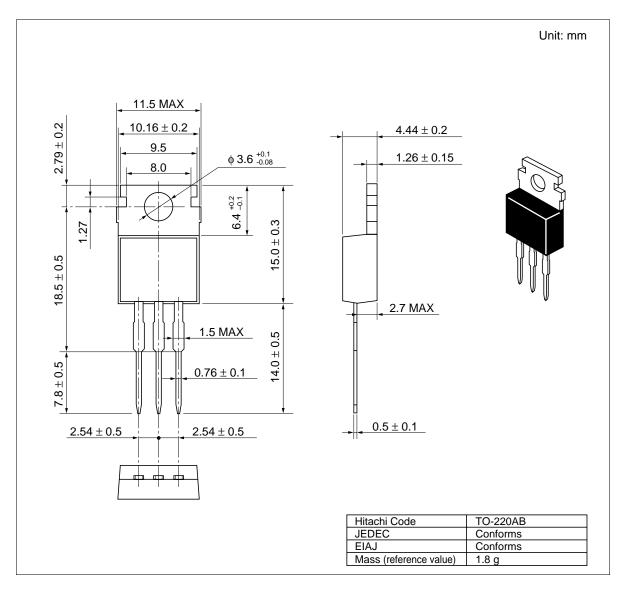


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Package Dimensions



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HITACHI 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 Tel: <49>

Hitachi Europe GmbH Electronic Components Group Dornacher Straβe 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) 585160

Hitachi Asia Ltd. Hitachi Tower 16 Collyer Quay #20-00, Singapore 049318 Tel : <65>-538-6533/538-8577 Fax : <65>-538-6933/538-3877 URL : http://www.hitachi.com.sg

Hitachi Asia Ltd. (Taipei Branch Office) 4/F, No. 167, Tun Hwa North Road, Hung-Kuo Building, Taipei (105), Taiwan Tel : <886>-(2)-2718-3666 Fax : <886>-(2)-2718-3860 Telex : 23222 HAS-TP URL : http://www.hitachi.com.tw 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 URL : http://www.hitachi.com.hk

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