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Silicon PNP Triple Diffused

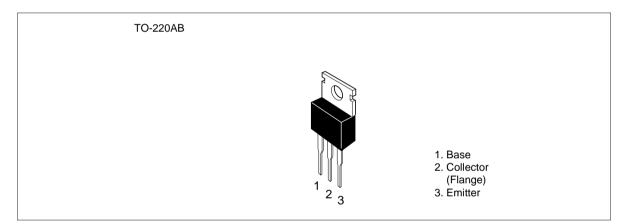


ADE-208-862 (Z) 1st. Edition September 2000

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	А
Pc	1.8	W
Pc*1	30	W
Tj	150	°C
Tstg	-45 to +150	°C
		$ \begin{array}{c cccc} V_{CBO} & -200 \\ \hline V_{CEO} & -150 \\ \hline V_{EBO} & -6 \\ \hline I_{C} & -2 \\ \hline I_{C(peak)} & -5 \\ \hline P_{C} & 1.8 \\ \hline P_{C}^{*1} & 30 \\ \hline Tj & 150 \\ \end{array} $

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

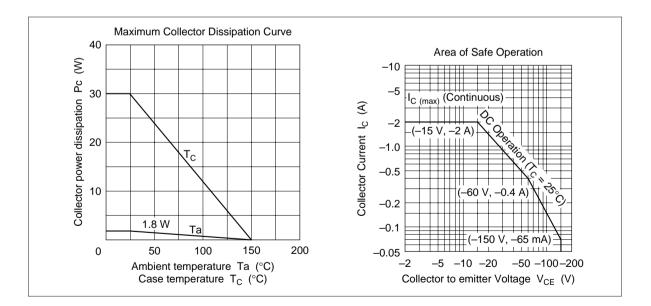
Electrical Characteristics (Ta = 25° C)

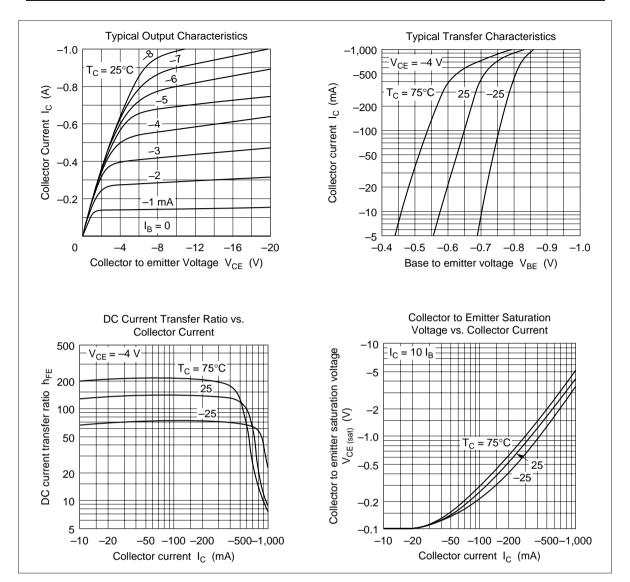
Item	Symbol	Min	Тур	Мах	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{\rm (BR)CBO}$	-150	_	_	V	$I_c = -50$ mA, $R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(\text{BR})\text{EBO}}$	-6	_	—	V	$I_{\rm E} = -5$ mA, $I_{\rm C} = 0$
Collector cutoff current	I _{CBO}	_	_	-1	μΑ	$V_{CB} = -120 \text{ V}, \text{ I}_{E} = 0$
DC current transfer ratio	h_{FE1}^{*1}	60	_	200		$V_{ce} = -4 \text{ V}, \text{ I}_c = -50 \text{ mA}$
	h_{FE2}	60	—	—		$V_{ce} = -10 \text{ V}, \text{ I}_{c} = -500 \text{ mA}^{*2}$
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	$V_{CB} = -100 \text{ V}, I_E = 0,$ 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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HITACHI

Hitachi, Ltd.

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

For further information write to:

Hitachi America, Ltd. Semiconductor & IC Div. 2000 Sierra Point Parkway Brisbane, CA. 94005-1835 U S A Tel: 415-589-8300 Fax: 415-583-4207 Hitachi Europe GmbH Electronic Components Group Continental Europe Dornacher Straße 3 D-85622 Feldkirchen München Tel: 089-9 91 80-0 Fax: 089-9 29 30 00 Hitachi Europe Ltd. Electronic Components Div. Northern Europe Headquarters Whitebrook Park Lower Cookham Road Maidenhead Berkshire SL6 8YA United Kingdom Tel: 0628-585000 Fax: 0628-778322 Hitachi Asia Pte. Ltd. 16 Collyer Quay #20-00 Hitachi Tower Singapore 0104 Tel: 535-2100 Fax: 535-1533

Hitachi Asia (Hong Kong) Ltd. Unit 706, North Tower, World Finance Centre, Harbour City, Canton Road Tsim Sha Tsui, Kowloon Hong Kong Tel: 27359218 Fax: 27306071

