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Renesas Technology Corp. Customer Support Dept. April 1, 2003



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Silicon PNP Triple Diffused

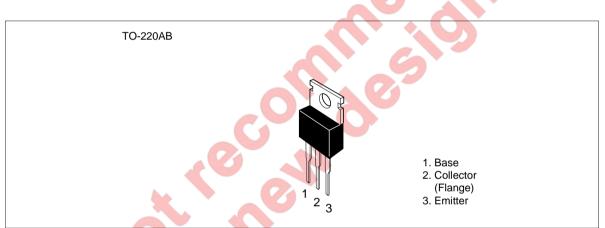


ADE-208-861 (Z) 1st. Edition September 2000

Application

Low frequency power amplifier TV vertical deflection output complementary pair with 2SD1137

Outline



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

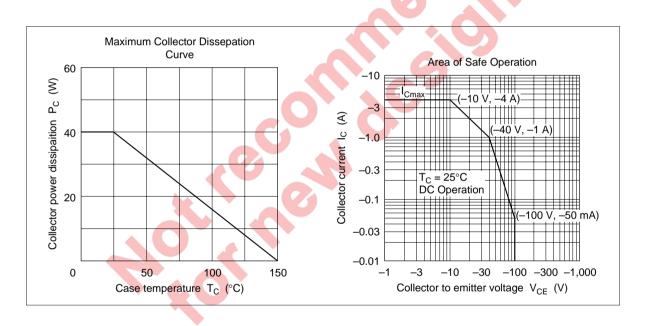
Symbol	Rating	Unit
V _{CBO}	-100	V
V	-100	V
V _{EBO}	-4	V
I _c	-4	А
I _{C(peak)}	-5	A
Pc	1.8	W
Pc*1	40	W
Tj	150	°C
Tstg	-45 to +150	°C
	$ V_{CBO} \\ V_{EBO} \\ I_{C} \\ I_{C(peak)} \\ \frac{P_{C}}{P_{c}^{*1}} \\ Tj $	V _{CBO} -100 V _{EBO} -100 I _C -4 I _C -4 I _C -5 P _C 1.8 P _C *1 40 Tj 150

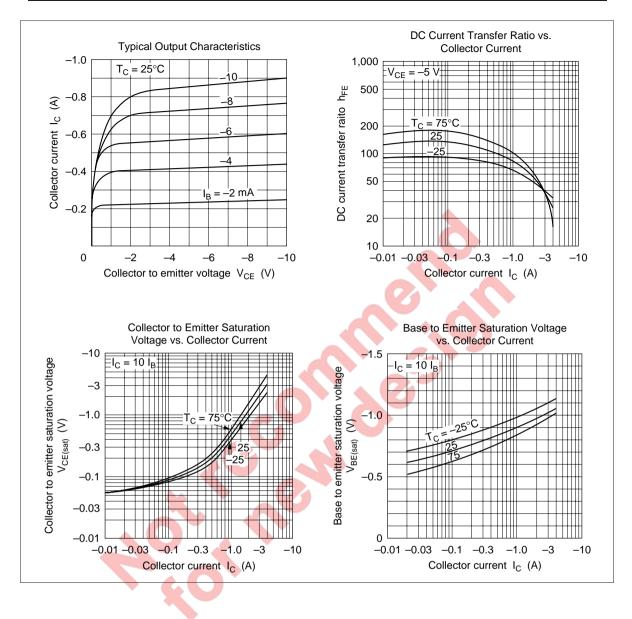
Note: 1. Value at $T_c = 25^{\circ}C$

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	-100	_	—	V	$I_{c} = -10$ mA, $R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{\rm (BR)EBO}$	-4	_	_	V	$I_{\rm E} = -1$ mA, $I_{\rm C} = 0$
Collector cutoff current	I _{CEO}	—	—	-100	μΑ	V_{ce} = -80 V, R_{be} = ∞
Emitter cutoff current	I_{EBO}	—	—	-50	μΑ	$V_{\rm EB} = -3.5 \text{ V}, I_{\rm C} = 0$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	—	_	-1.0	V	$I_{\rm c} = -1 \text{ A}, I_{\rm B} = -0.1 \text{ A}^{*1}$
DC current transfer ratio	h _{FE}	50	—	250		$V_{ce} = -4 V$ $I_c = -0.5 A^{*1}$
		25		350		$I_c = -50 \text{ mA}$

Note: 1. Pulse test





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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

