Silicon NPN Triple Diffused

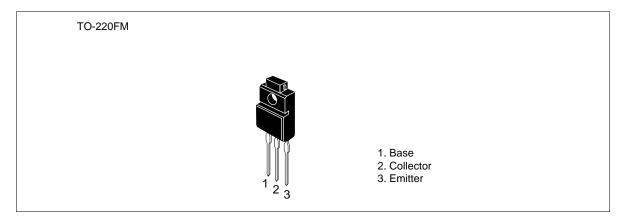
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ADE-208-929 (Z) 1st. Edition Sep. 2000

Application

Low frequency high voltage power amplifier TV vertical deflection output complementary pair with 2SB1530

Outline





Absolute Maximum Ratings (Ta = 25° C)

Item	Symbol	Ratings	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	А
Collector peak current	I _{C(peak)}	5	А
Collector power dissipation	Pc	1.5	W
	P _c * ¹	20	
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-45 to +150	°C

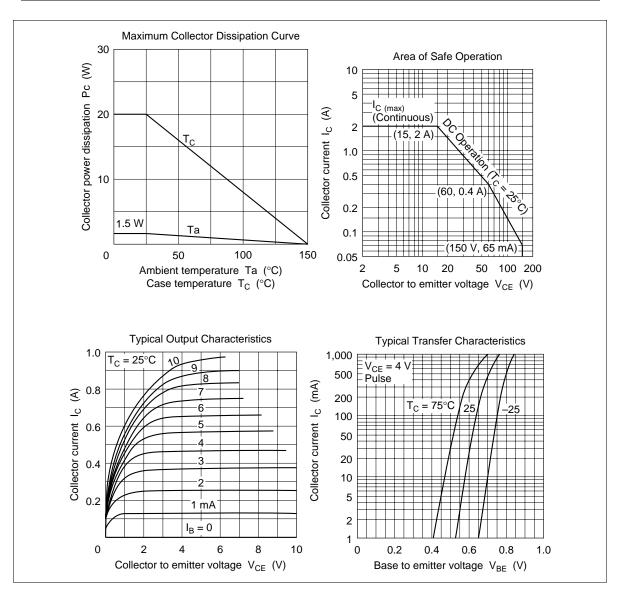
Note: 1. Value at $T_c = 25^{\circ}C$.

Electrical Characteristics (Ta = 25°C)

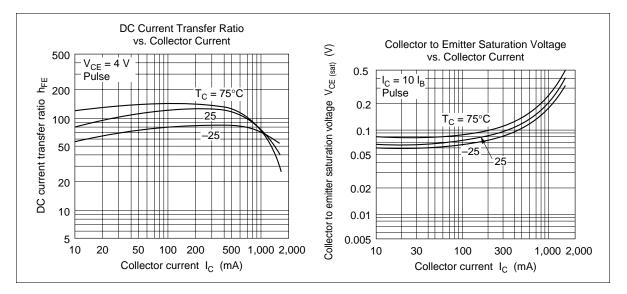
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	150	_	_	V	$I_c = 50 \text{ mA}, \text{ R}_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	6	—	—	V	$I_{\rm E} = 5$ mA, $I_{\rm C} = 0$
Collector cutoff current	I _{CBO}	_	_	1	μΑ	$V_{CB} = 120 \text{ V}, I_{E} = 0$
DC current transfer ratio	$h_{\rm FE1}^{*1}$	60	—	320		$V_{ce} = 4 \text{ V}, \text{ I}_{c} = 50 \text{ mA}$
	h _{FE2}	60	_			V_{ce} = 10 V, I_c = 500 mA* ²
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	—	—	3.0	V	$I_{\rm C} = 500$ mA, $I_{\rm B} = 50$ mA* ²
Base to emitter voltage	V _{BE}		_	1.0	V	$V_{ce} = 4 \text{ V}, \text{ I}_{c} = 50 \text{ mA}$
Notes: 1. The 2SD2337 is grouped by h _{FE1} as follows.						

2. Pulse test.

В	С	D
60 to 120	100 to 200	160 to 320

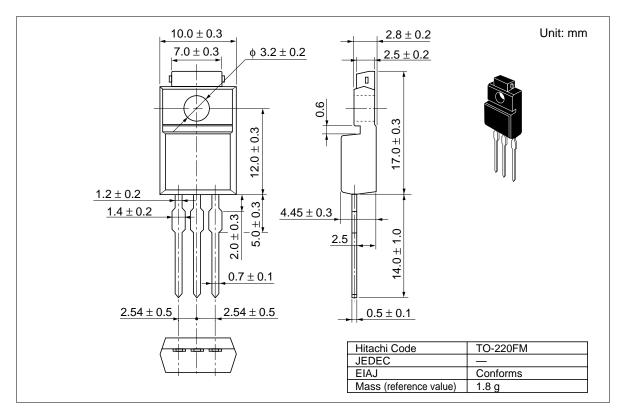


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Package Dimensions



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IITACHI 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 Germany Fax: <1>(408) 433-0223 Tel: <49> (89) 9 9180-0

Hitachi Europe GmbH Electronic Components Group Dornacher Straße 3 D-85622 Feldkirchen, Munich 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 I td (Taipei Branch Office) 4/F, No. 167, Tun Hwa North Road, Huna-Kuo Buildina. Taipei (105), Taiwan Tel : <886>-(2)-2718-3666 Fax: <886>-(2)-2718-8180 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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