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April 1st, 2010 Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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



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2SD2337

Silicon NPN Triple Diffused

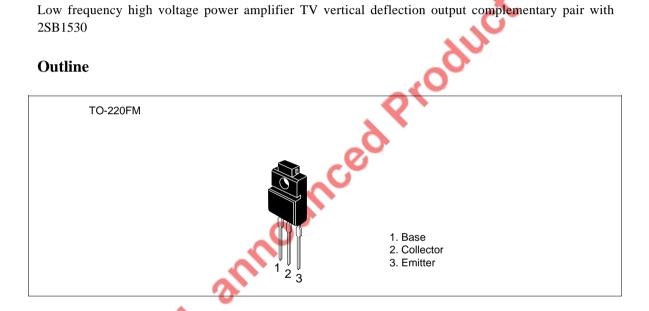


ADE-208-929 (Z) 1st. Edition September 2000

Application

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

Outline



2SD2337

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	$V_{\scriptscriptstyle{EBO}}$	6	V	
Collector current	I _c	2	А	
Collector peak current	I _{C(peak)}	5	А	
Collector power dissipation	P _c	1.5	W	
	P _c *1	20		
Junction temperature	Tj	150	~ °C	
Storage temperature	Tstg	-45 to +150	°C	

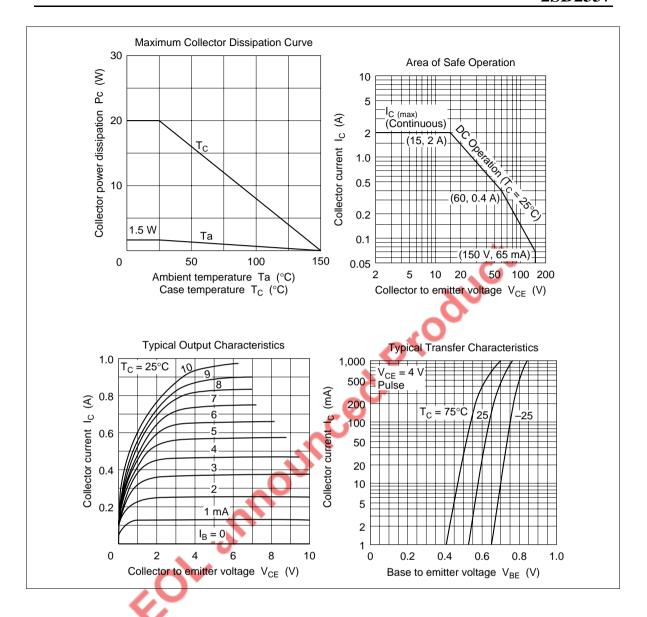
Electrical Characteristics (Ta = 25°C)

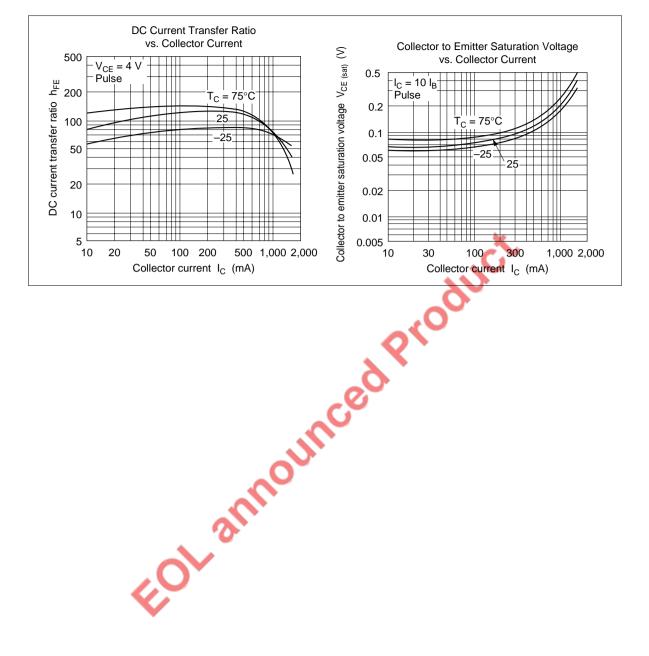
Storage temperature			Tstg		−45 t	o +150 °C
Note: 1. Value at $T_c = 25$ °C. Electrical Characteristics ($Ta = 25$ °C)				_	0,40	dille
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	150		20	V	$I_{\rm C}$ = 50 mA, $R_{\rm BE}$ = ∞
Emitter to base breakdown voltage	$V_{(BR)EBO}$	6	<u> </u>	_	V	$I_E = 5 \text{ mA}, I_C = 0$
Collector cutoff current	I _{CBO}	_	<u> </u>	1	μΑ	V _{CB} = 120 V, I _E = 0
DC current transfer ratio	h _{FE1} *1	60	_	320		$V_{CE} = 4 \text{ V}, I_{C} = 50 \text{ mA}$
	h _{FE2}	60	_	_		$V_{CE} = 10 \text{ V}, I_{C} = 500 \text{ mA}^{*2}$
Collector to emitter saturation voltage	V _{CE(sat)}	_	_	3.0	V	$I_{\rm C} = 500 \text{ mA}, I_{\rm B} = 50 \text{ mA}^{*2}$
Base to emitter voltage	V_{BE}	_	_	1.0	V	$V_{CE} = 4 \text{ V}, I_{C} = 50 \text{ mA}$

Notes: 1. The 2SD2337 is grouped by h_{FE1} as follows.

2. Pulse test.

В	C	D
60 to 120	100 to 200	160 to 320





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