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



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measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of nonflammable material or
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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

TO-220FM



- 1. Base
- 2. Collector
- 3. Emitter

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

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

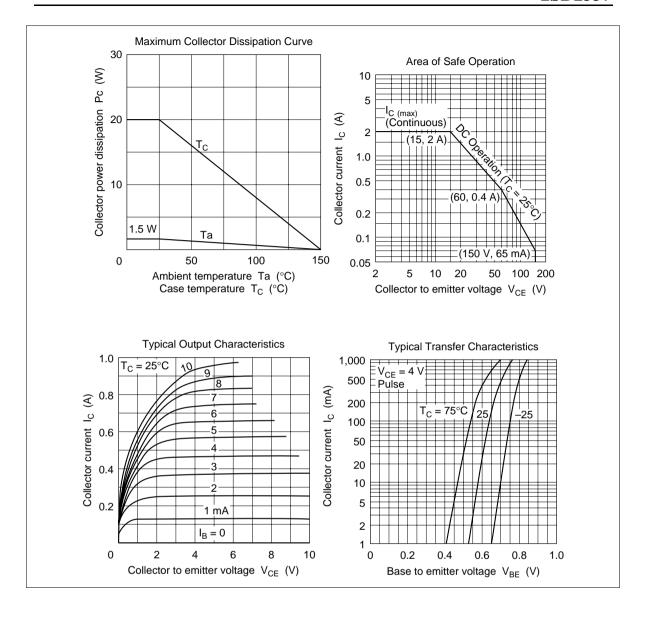
Electrical Characteristics ($Ta = 25^{\circ}C$)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	150	_	_	V	$I_{\rm C}$ = 50 mA, $R_{\rm BE}$ = ∞
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 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	$V_{\text{CE(sat)}}$	_	_	3.0	V	$I_{\rm C}$ = 500 mA, $I_{\rm B}$ = 50 mA* ²
Base to emitter voltage	V_{BE}		_	1.0	V	$V_{CE} = 4 \text{ V}, I_{C} = 50 \text{ mA}$

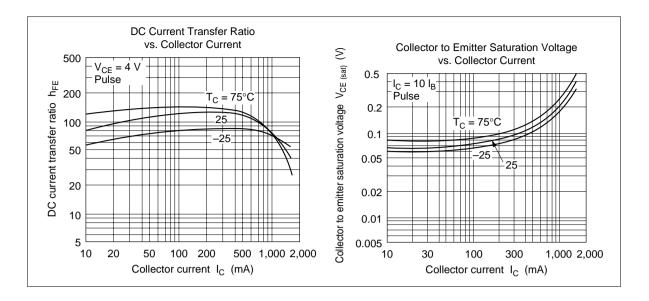
Notes: 1. The 2SD2337 is grouped by h_{FE1} as follows.

2. Pulse test.

В	С	D
60 to 120	100 to 200	160 to 320



2SD2337



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