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# 2SB1530

# Silicon PNP Triple Diffused

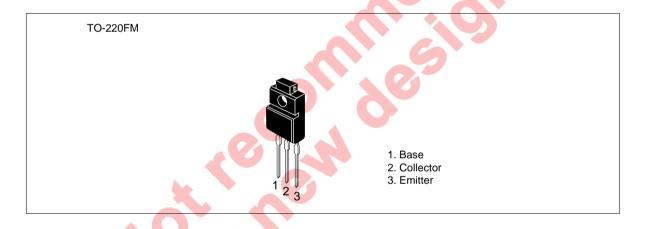


ADE-208-879 (Z) 1st. Edition September 2000

### **Application**

Low frequency power amplifier color TV vertical deflection output complementary pair with 2SD2337

#### **Outline**



## 2SB1530

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

Item	Symbol	Ratings	Unit
Collector to base voltage	$V_{\text{CBO}}$	-200	V
Collector to emitter voltage	$V_{\text{CEO}}$	-150	V
Emitter to base voltage	$V_{EBO}$	-6	V
Collector current	I <sub>c</sub>	-2	A
Collector peak current	I <sub>C(peak)</sub>	<b>-</b> 5	A
Collector power dissipation	P <sub>c</sub>	1.5	W
	P <sub>c</sub> *1	20	
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-45 to +150	°C

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

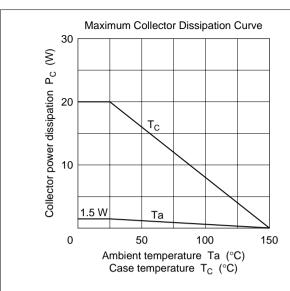
## **Electrical Characteristics** ( $Ta = 25^{\circ}C$ )

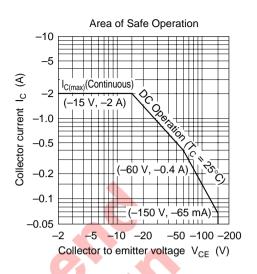
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-150		Z	V	$I_C = -50 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-6	_	U	V	$I_{\rm E} = -5$ mA, $I_{\rm C} = 0$
Collector cutoff current	I <sub>CBO</sub>	_	A	-1	μΑ	$V_{CB} = -120 \text{ V}, I_{E} = 0$
DC current transfer ratio	h <sub>FE1</sub> *1	60		200		$V_{CE} = -4 \text{ V}, I_{C} = -50 \text{ mA}$
	h <sub>FE2</sub>	60	<b>)</b> _	_	<del></del>	$V_{CE} = -10 \text{ V}, I_{C} = -500 \text{ mA}^{*2}$
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>		_	-3	V	$I_{\rm C} = -500 \text{ mA}, I_{\rm B} = -50 \text{ mA}$
Base to emitter voltage	$V_{BE}$	_	_	-1	V	$I_{CE} = -4 \text{ A}, I_{C} = -50 \text{ mA}$

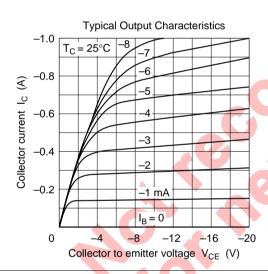
Notes: 1. The 2SB1530 is grouped by  $h_{\text{FE1}}$  as follows.

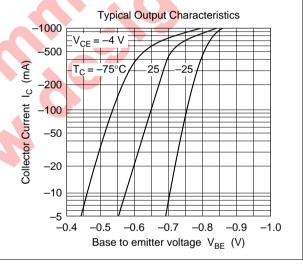
В	С
60 to 120	100 to 200

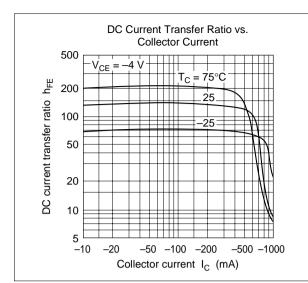
2. Pulse test.

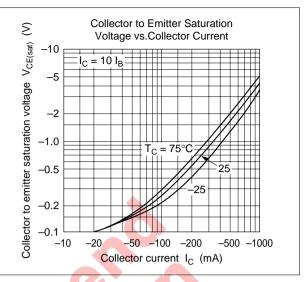












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