## Silicon PNP Triple Diffused

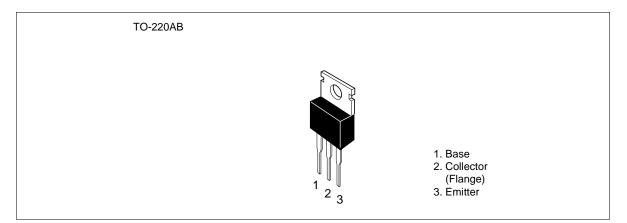
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ADE-208-862 (Z) 1st. Edition Sep. 2000

#### Application

Low frequency power amplifier color TV vertical deflection output complementary pair with 2SD1138

#### Outline



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

Symbol	Rating	Unit
V <sub>CBO</sub>	-200	V
V <sub>CEO</sub>	-150	V
V <sub>EBO</sub>	-6	V
Ι <sub>c</sub>	-2	А
I <sub>C(peak)</sub>	-5	A
Pc	1.8	W
P <sub>c</sub> * <sup>1</sup>	30	W
Tj	150	°C
Tstg	-45 to +150	°C
		V <sub>CBO</sub> -200 $V_{CEO}$ -150 $V_{EBO}$ -6 $I_c$ -2 $I_{c}$ -5 $P_c$ 1.8 $P_c^{*1}$ 30   Tj 150

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



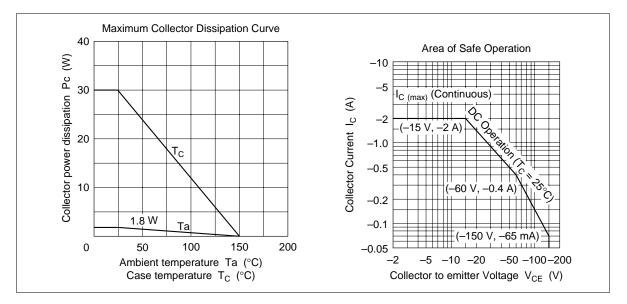
#### **Electrical Characteristics** (Ta = 25°C)

ltem	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{\rm (BR)CBO}$	-150	_	—	V	$I_c = -50$ mA, $R_{_{BE}} = \infty$
Emitter to base breakdown voltage	$V_{(\text{BR})\text{EBO}}$	-6	_	—	V	$I_{\rm E} = -5$ mA, $I_{\rm C} = 0$
Collector cutoff current	I <sub>cbo</sub>	—	_	-1	μA	$V_{CB} = -120 \text{ V}, I_{E} = 0$
DC current transfer ratio	$h_{\text{FE1}}^{*1}$	60	—	200		$V_{ce} = -4 \text{ V}, \text{ I}_{c} = -50 \text{ mA}$
	$\mathbf{h}_{\text{FE2}}$	60	—	_		$V_{ce} = -10 \text{ V}, I_c = -500 \text{ mA}^{*2}$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	_	_	-3	V	$I_{c} = -500 \text{ mA}, I_{B} = -50 \text{ mA}$
Base to emitter voltage	$V_{BE}$	_	_	-1	V	$V_{ce} = -4 \text{ V}, \text{ I}_{c} = -50 \text{ mA}$
Collector output capacitance	Cob	—	30	—	pF	$V_{CB} = -100 \text{ V}, \text{ I}_{E} = 0,$ f = 1 MHz

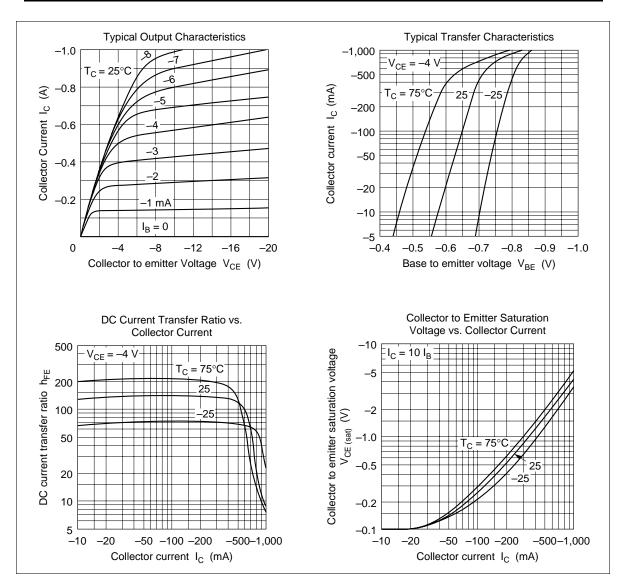
Notes: 1. The 2SB861 is grouped by  $h_{FE1}$  as follows.

2. Pulse test

В	С
60 to 120	100 to 200

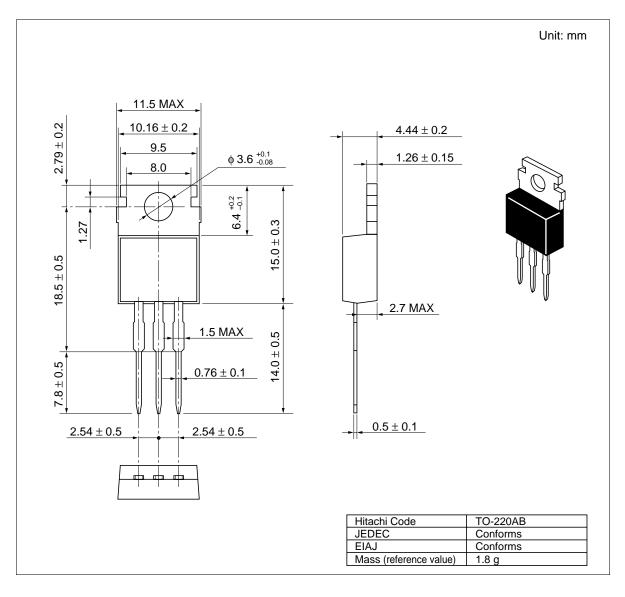


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#### **Package Dimensions**



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