Silicon PNP Triple Diffused

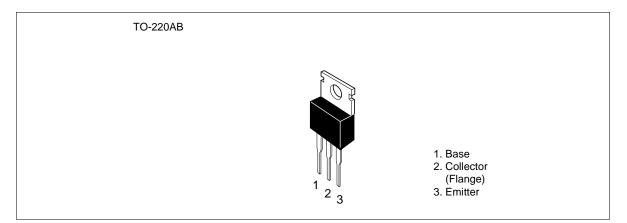
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ADE-208-862 (Z) 1st. Edition Sep. 2000

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 _{CBO}	-200	V
V _{CEO}	-150	V
V _{EBO}	-6	V
Ι _c	-2	А
I _{C(peak)}	-5	А
Pc	1.8	W
P _c * ¹	30	W
Tj	150	°C
Tstg	-45 to +150	°C
	V _{сво} V _{сво} V _{ЕВО} I _с I _с I _{с(реак)} P _с P _c * ¹ Tj	$ \begin{array}{c cccc} V_{CBO} & -200 \\ \hline V_{CEO} & -150 \\ \hline V_{EBO} & -6 \\ \hline I_{C} & -2 \\ \hline I_{C(peak)} & -5 \\ \hline P_{C} & 1.8 \\ \hline P_{C}^{*1} & 30 \\ \hline Tj & 150 \\ \end{array} $

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



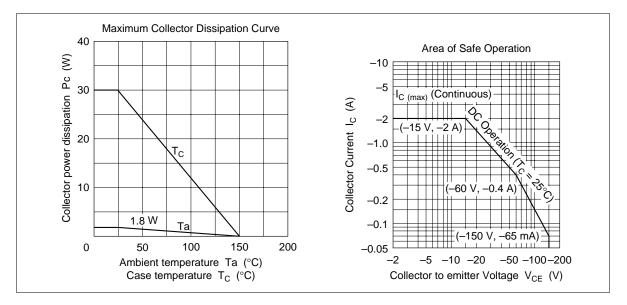
Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{\rm (BR)CBO}$	-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 _{cbo}	_	_	-1	μΑ	$V_{CB} = -120 \text{ V}, I_{E} = 0$
DC current transfer ratio	h_{FE1}^{*1}	60	—	200		$V_{ce} = -4 \text{ V}, \text{ I}_{c} = -50 \text{ mA}$
	\mathbf{h}_{FE2}	60	—	—		$V_{ce} = -10 \text{ V}, \text{ I}_{c} = -500 \text{ mA}^{*2}$
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

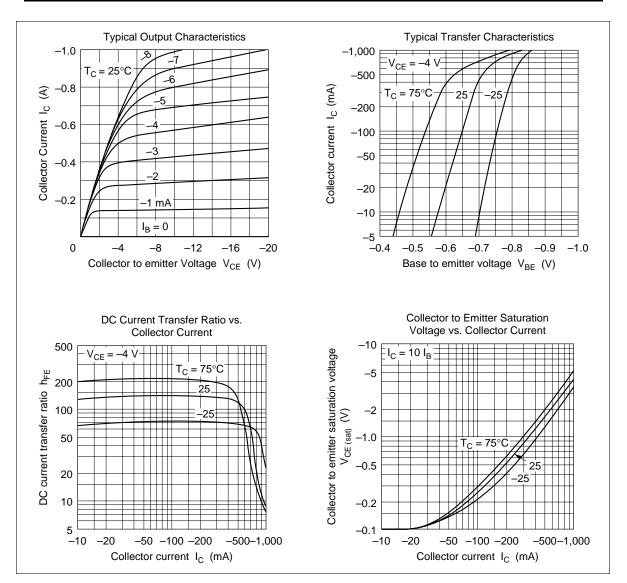
Notes: 1. The 2SB861 is grouped by h_{FE1} as follows.

2. Pulse test

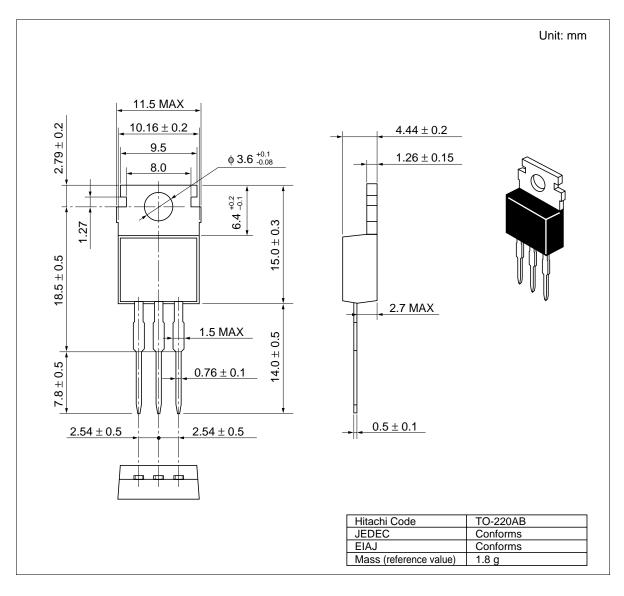
В	С
60 to 120	100 to 200



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Package Dimensions



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