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



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Silicon PNP Triple Diffused

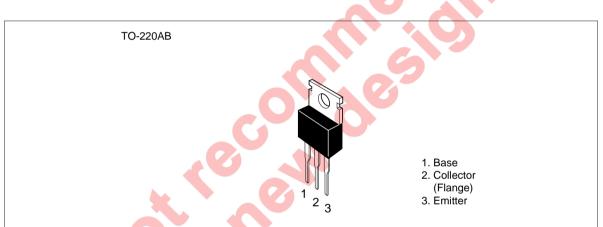


ADE-208-861 (Z) 1st. Edition September 2000

Application

Low frequency power amplifier TV vertical deflection output complementary pair with 2SD1137

Outline



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

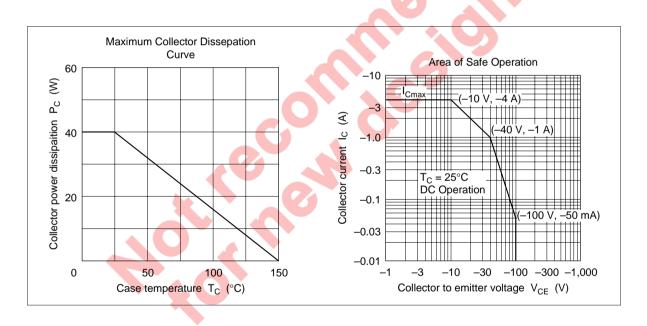
Item	Symbol	Rating	Unit	
Collector to base voltage	V _{CBO}	-100	V	
Collector to emitter voltage	Væ	-100	V	
Emitter to base voltage	V _{EBO}	-4	V	
Collector current	Ι _c	-4	А	
Collector peak current	I _{C(peak)}	-5	А	
Collector power dissipation	Pc	1.8	W	
	P _c * ¹	40	W	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-45 to +150	٥C	

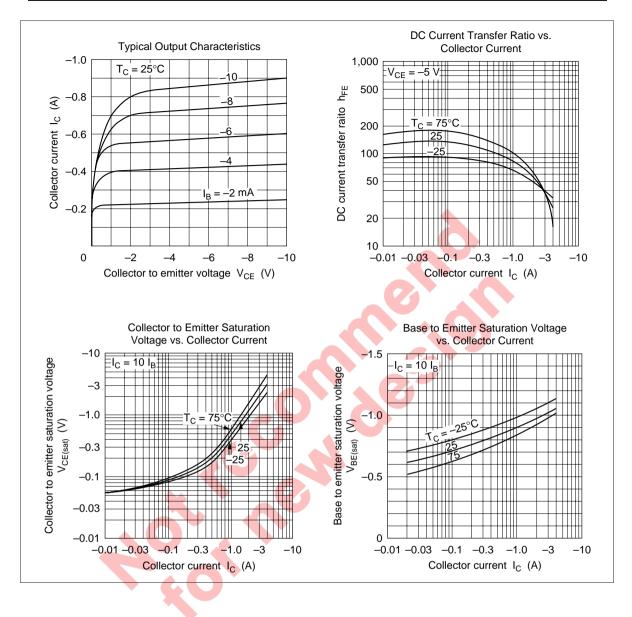
Note: 1. Value at $T_c = 25^{\circ}C$

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	-100	—	—	V	$I_c = -10$ mA, $R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{\rm (BR)EBO}$	-4	_	_	V	$I_{\rm E} = -1$ mA, $I_{\rm C} = 0$
Collector cutoff current	I _{CEO}	_	—	-100	μΑ	$V_{ce} = -80$ V, $R_{be} = \infty$
Emitter cutoff current	I _{EBO}	_	—	-50	μΑ	$V_{EB} = -3.5 \text{ V}, \text{ I}_{C} = 0$
Collector to emitter saturation voltage	$V_{\text{CE(sat)}}$	—	_	-1.0	V	$I_{c} = -1 \text{ A}, I_{B} = -0.1 \text{ A}^{*1}$
DC current transfer ratio	h _{FE}	50	—	250		$V_{ce} = -4 V$ $I_c = -0.5 A^{*1}$
		25		350		$I_c = -50 \text{ mA}$

Note: 1. Pulse test





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