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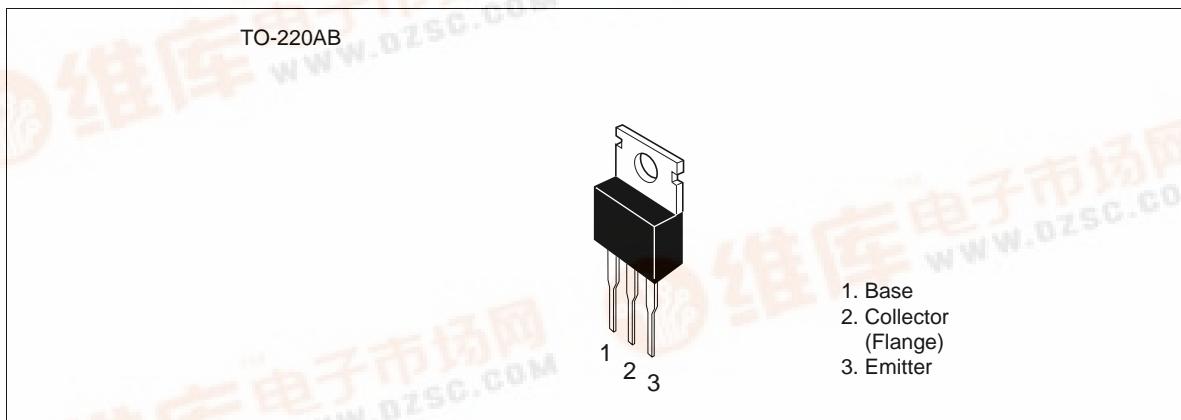
Silicon PNP Triple Diffused

HITACHI

Application

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

Outline



Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Rating	Unit
Collector to base voltage	V _{CBO}	-100	V
Collector to emitter voltage	V _{CEO}	-100	V
Emitter to base voltage	V _{EBO}	-4	V
Collector current	I _C	-4	A
Collector peak current	I _{C(peak)}	-5	A
Collector power dissipation	P _C	1.8	W
	P _C ^{*1}	40	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-45 to +150	°C

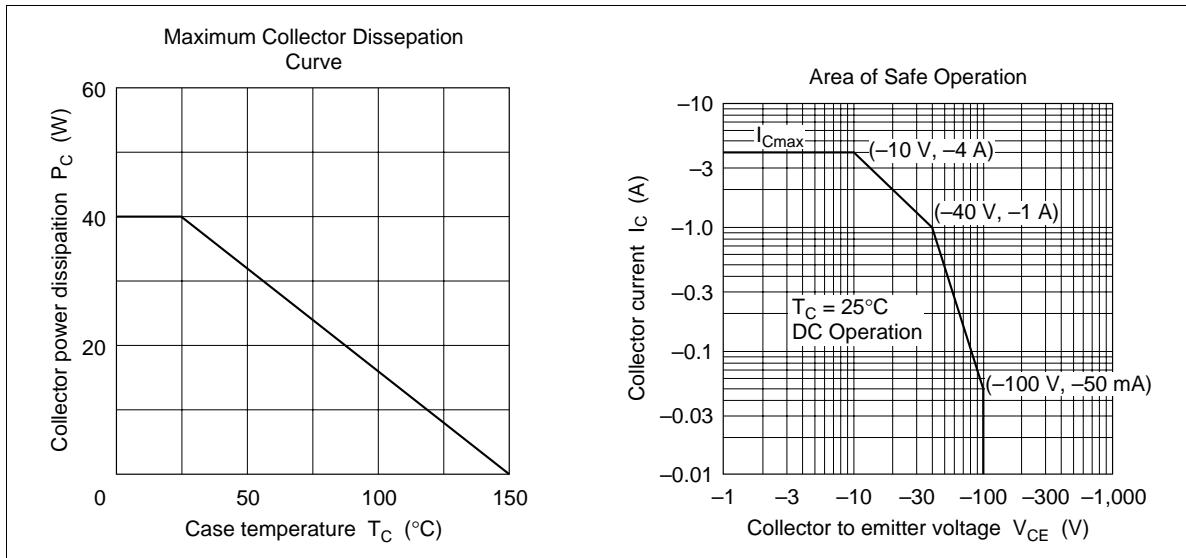
Note: 1. Value at T_c = 25°C

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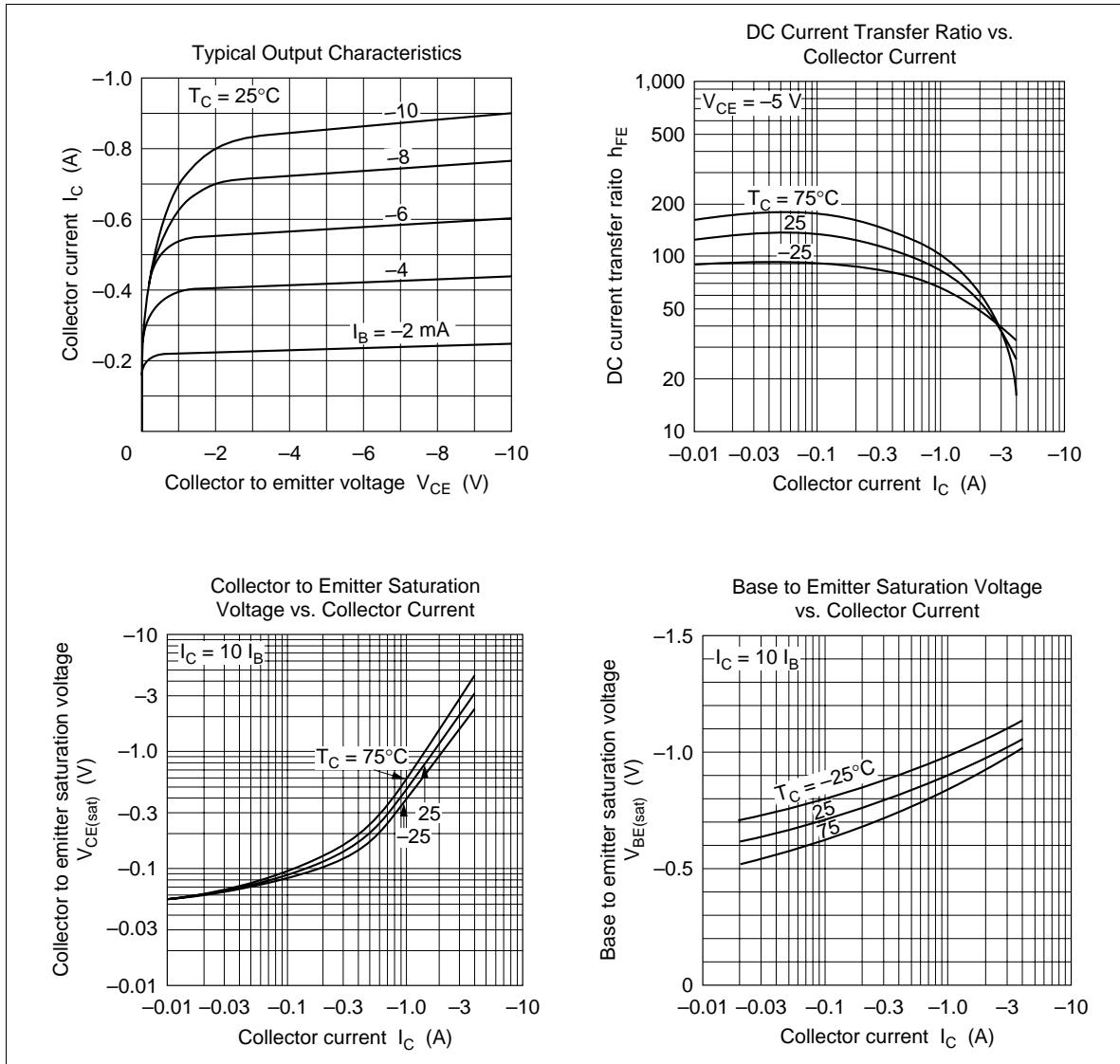
Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-100	—	—	V	$I_C = -10 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-4	—	—	V	$I_E = -1 \text{ mA}, I_C = 0$
Collector cutoff current	I_{CEO}	—	—	-100	μA	$V_{CE} = -80 \text{ V}, R_{BE} = \infty$
Emitter cutoff current	I_{EBO}	—	—	-50	μA	$V_{EB} = -3.5 \text{ V}, I_C = 0$
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	-1.0	V	$I_C = -1 \text{ A}, I_B = -0.1 \text{ A}^{*1}$
DC current transfer ratio	h_{FE}	50	—	250	$V_{CE} = -4 \text{ V}$	$I_C = -0.5 \text{ A}^{*1}$
		25	—	350		$I_C = -50 \text{ mA}$

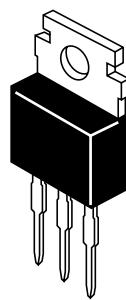
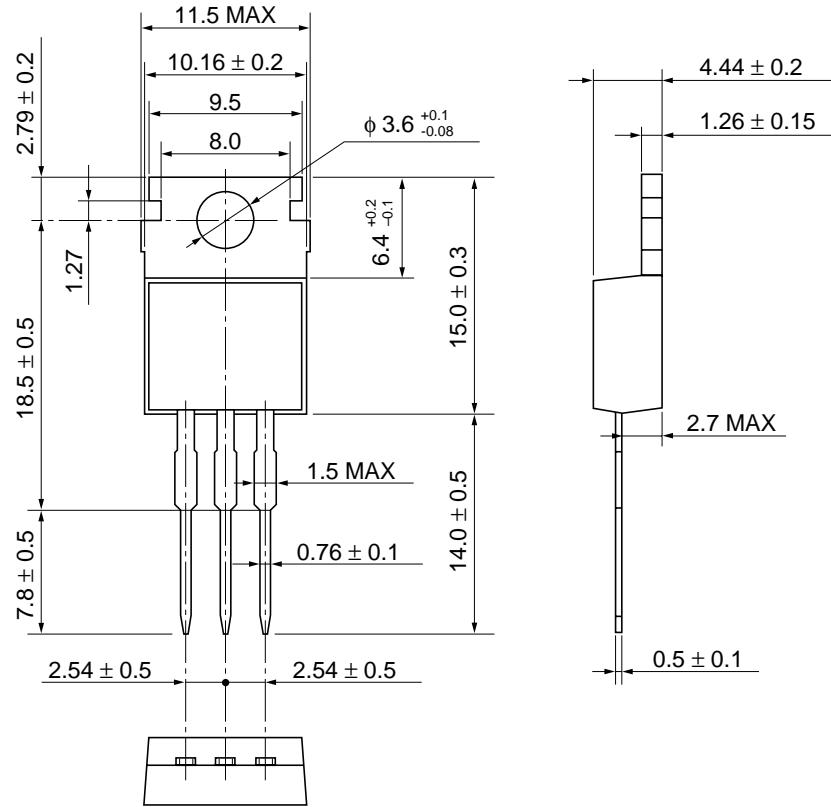
Note: 1. Pulse test



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Unit: mm



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