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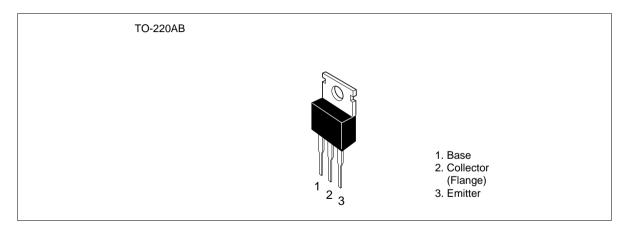
Silicon NPN Triple Diffused

HITACHI

Application

Low frequency power amplifier TV vertical deflection output complementary pair with 2SB860

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	Tj	150	°C
Storage temperature	Tstg	-45 to +150	°C

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

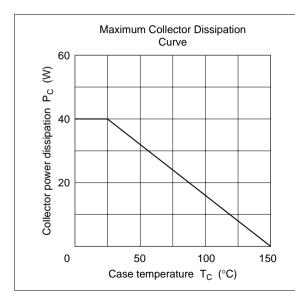


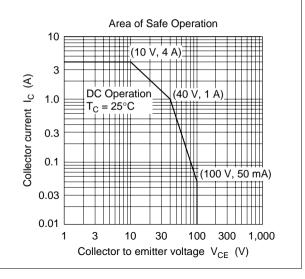
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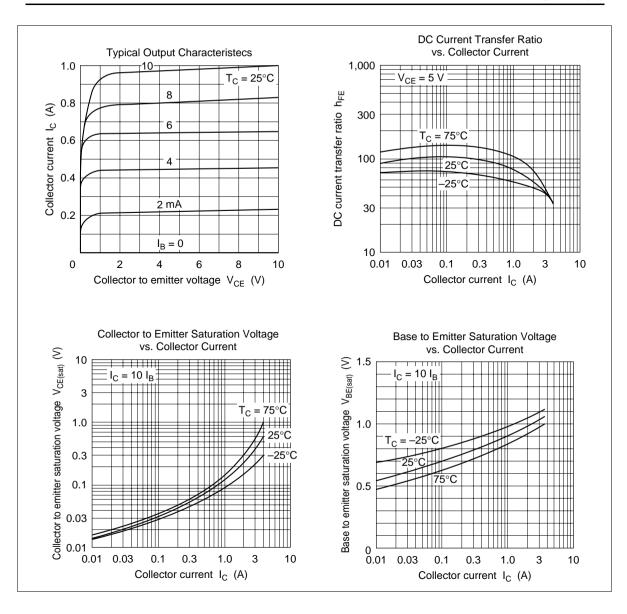
Electrical Characteristics ($Ta = 25^{\circ}C$)

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

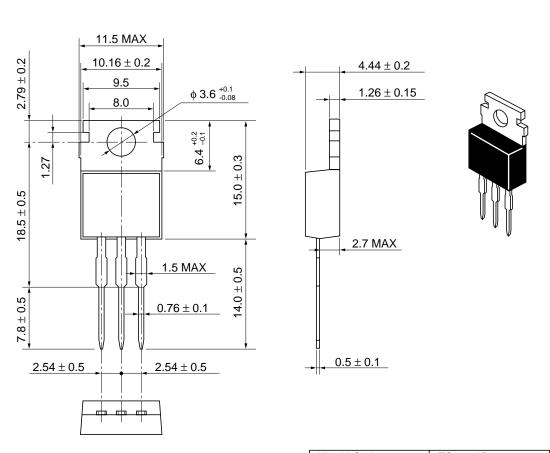
Note: 1. Pulse test.







Unit: mm



Hitachi Code	TO-220AB
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	1.8 g

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