TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

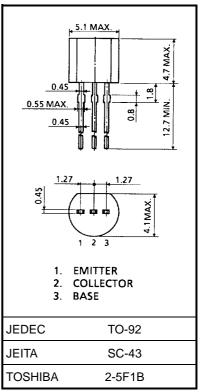
2SA950

Audio Power Amplifier Applications

- High hFE: hFE = 100~320
- 1 W output applications
- Complementary to 2SC2120

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Collector-base voltage	V _{CBO}	-35	V	
Collector-emitter voltage	V _{CEO}	-30	V	
Emitter-base voltage	V _{EBO}	-5	V	
Collector current	Ι _C	-800	mA	
Base current	Ι _Β	-160	mA	
Collector power dissipation	P _C	600	mW	
Junction temperature	Tj	150	°C	
Storage temperature range	T _{stg}	-55~150	°C	



Weight: 0.21 g (typ.)

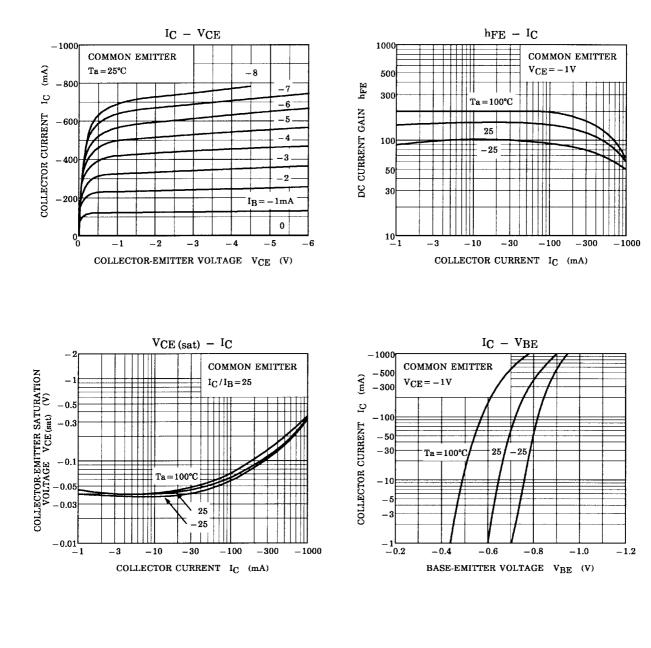
Electrical Characteristics (Ta = 25°C)

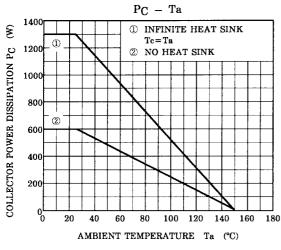
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -35 \text{ V}, \text{ I}_{E} = 0$			-0.1	μA
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, \text{ I}_{C} = 0$	_	_	-0.1	μA
Collector-emitter breakdown voltage	V (BR) CEO	$I_{C} = -10 \text{ mA}, I_{B} = 0$	-30	_	_	V
DC current gain	h _{FE (1)} (Note)	$V_{CE} = -1 V, I_{C} = -100 mA$	100	_	320	
	h _{FE (2)}	$V_{CE} = -1 \text{ V}, I_{C} = -700 \text{ mA}$	35	_	_	
Collector-emitter saturation voltage	V _{CE (sat)}	$I_{C} = -500 \text{ mA}, I_{B} = -20 \text{ mA}$	_	_	-0.7	V
Base-emitter voltage	V _{BE}	$V_{CE} = -1 V, I_{C} = -10 mA$	-0.5	_	-0.8	V
Transition frequency	f _T	$V_{CE} = -5 \text{ V}, I_{C} = -10 \text{ mA}$	_	120	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, \text{ I}_{E} = 0, \text{ f} = 1 \text{ MHz}$	_	19	_	pF

Note: hFE (1) classification O: 100~200, Y: 160~320

Unit: mm

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