TOSHIBA

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

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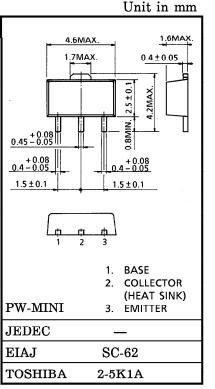
AUDIO FREQUENCY AMPLIFIER APPLICATIONS

- High DC Current Gain: hFE=100~320
- Suitable for Output Stage of 1 Watts Amplifier
- P_C=1~2W (Mounted on Ceramic Substrate)
- Small Flat Package
- Complementary to 2SC2884

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	v_{CBO}	-35	V
Collector-Emitter Voltage	v_{CEO}	-30	V
Emitter-Base Voltage	$v_{ m EBO}$	-5	V
Collector Current	$I_{\mathbf{C}}$	-800	mA
Base Current	I_{B}	-160	mA
Collector Power Dissipation	$P_{\mathbf{C}}$	500	mW
Collector Power Dissipation	PC*	1000	mW
Junction Temperature	T_{j}	150	°C
Storage Temperature Range	$\mathrm{T}_{\mathrm{stg}}$	-55~150	°C

PC^{*} : Mounted on ceramic substrate (250mm² × 0.8t)



Weight: 0.05g

Marking Type Name

hFE Rank

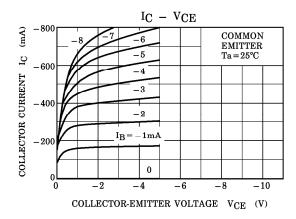
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

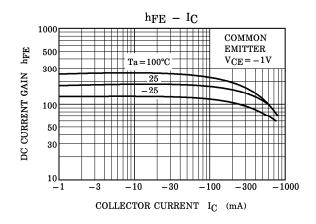
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -35V, I_{E} = 0$	_	_	-0.1	μA
Emitter Cut-off Current	I _{EBO}	$V_{EB} = -5V, I_{C} = 0$	_	_	-0.1	μ A
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_{\rm C} = -10$ mA, $I_{\rm B} = 0$	-30	_	_	V
DC Current Gain	hFE (1) (Note)	$V_{CE} = -1V, I_{C} = -100 \text{mA}$	100	_	320	
	$h_{\mathrm{FE}(2)}$	$V_{CE} = -1V, I_{C} = -700 \text{mA}$	35	_	_	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_C = -500 \text{mA}, I_B = -20 \text{mA}$	_		-0.7	V
Base-Emitter Voltage	$V_{ m BE}$	$V_{CE} = -1V, I_{C} = -10mA$	-0.5	_	-0.8	V
Transition Frequency	$ m f_{T}$	$V_{CE} = -5V, I_{C} = -10mA$	_	120	_	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_{E} = 0, f = 1MHz$	_	19	_	pF

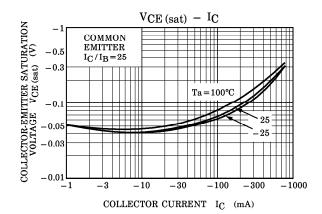
Note: $h_{FE(1)}$ Classification, $O: 100\sim200$, $Y: 160\sim320$

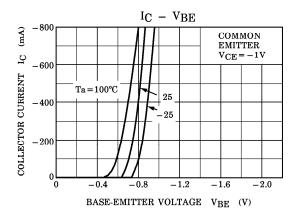
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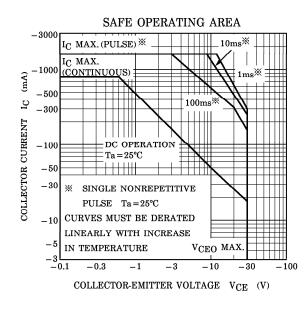
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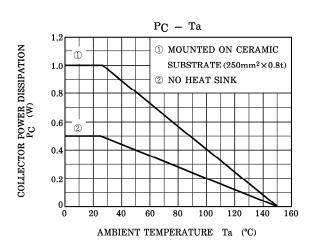












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