TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2 S A 1 1 5 0

LOW FREQUENCY AMPLIFIER APPLICATIONS

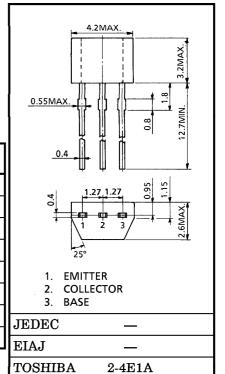
• High h_{FE} : $h_{FE} = 100 \sim 320$

• Complementary to 2SC2710.

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	$I_{\mathbf{B}}$	-160	mA
Collector Power Dissipation	PC	300	mW
Junction Temperature	T_{j}	150	°C
Storage Temperature Range	$ m T_{stg}$	-55~150	°C

Unit in mm



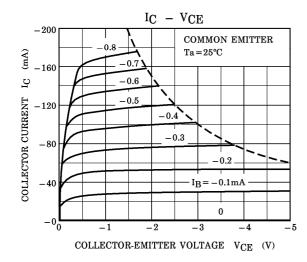
Weight: 0.13g

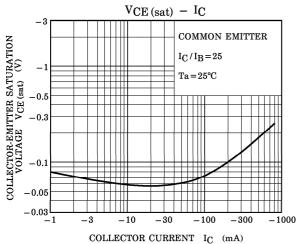
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

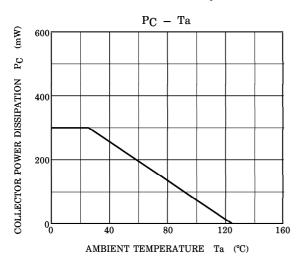
			1		1	
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -30V, I_{E} = 0$	_	_	-0.1	μ A
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V, I_C = 0$	_	_	-0.1	μ A
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_C = -10 \text{mA}, I_B = 0$	-30	_	_	V
DC Current Gain	hFE (1) (Note)	$V_{CE} = -1V, I_{C} = -100 \text{mA}$	100	_	320	
	h _{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	${f f_T}$	$V_{CE} = -5V, I_{C} = -10mA$		120	_	MHz
Collector Output Capacitance	Cob	$V_{CB} = -10V, I_E = 0, f = 1MHz$	_	19	_	pF

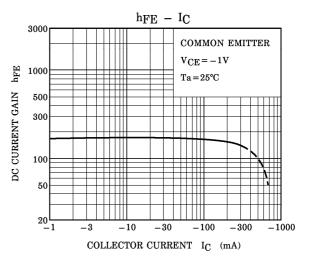
Note: hFE (1) Classification $O: 100\sim200$ Y: $160\sim320$

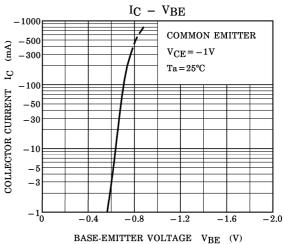
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3 2001-05-31