TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2SA1899

POWER AMPLIFIER APPLICATIONS.

DRIVER STAGE AMPLIFIER APPLICATIONS.

• Complementary to 2SC5052.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	v_{CBO}	-120	V
Collector-Emitter Voltage	V_{CEO}	-120	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	$I_{\mathbf{C}}$	-800	mA
Base Current	$I_{\mathbf{B}}$	-160	mA
Collector Power Dissipation	$P_{\mathbf{C}}$	1000	mW
Junction Temperature	T_{j}	150	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~150	°C

Unit in mm

7.1MAX.

3.8

3.2

1.0

1.025±0.15

1.025±0.15

0.45 - 0.05

1. BASE
2. COLLECTOR
3. EMITTER

JEDEC

EIAJ

—

TOSHIBA

2-7D2A

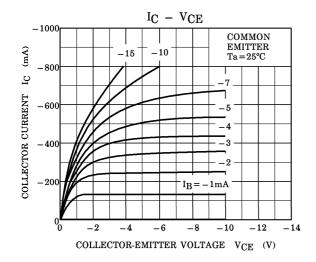
Weight: 0.2g

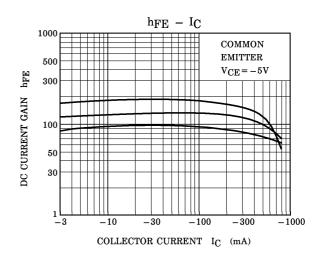
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

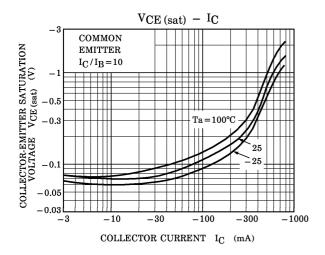
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -120V, I_{E} = 0$	_	_	-100	nA
Emitter Cut-off Current	$I_{ m EBO}$	$V_{EB} = -5V, I_{C} = 0$	_	_	-100	nA
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_C = -10 \text{mA}, I_B = 0$	-120	_	_	V
Emitter-Base Breakdown Voltage	V (BR) EBO	$I_{E} = -1 \text{mA}, I_{C} = 0$	-5	_	_	V
DC Current Gain	h _{FE} (Note)	$V_{CE} = -5V, I_{C} = -100 \text{mA}$	80	_	240	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_C = -500 \text{mA}, I_B = -50 \text{mA}$	_	_	-1.0	V
Base-Emitter Voltage	$V_{ m BE}$	$V_{CE} = -5V, I_{C} = -500 \text{mA}$	_	_	-1.0	V
Transition Frequency	$ m f_{T}$	$V_{CE} = -5V, I_{C} = -100 \text{mA}$	_	120	_	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	_	_	40	pF

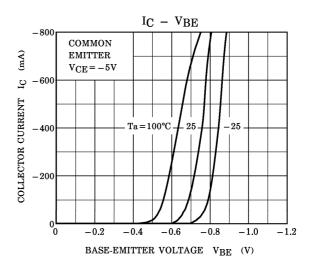
Note: hFE Classification O: 80~160, Y: 120~240

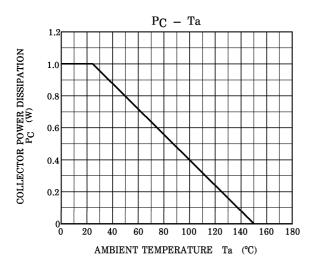
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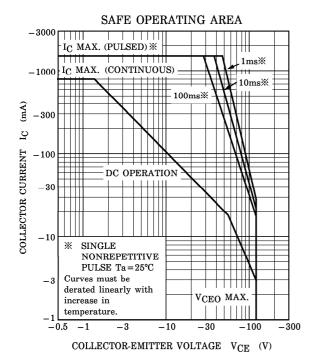








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