

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

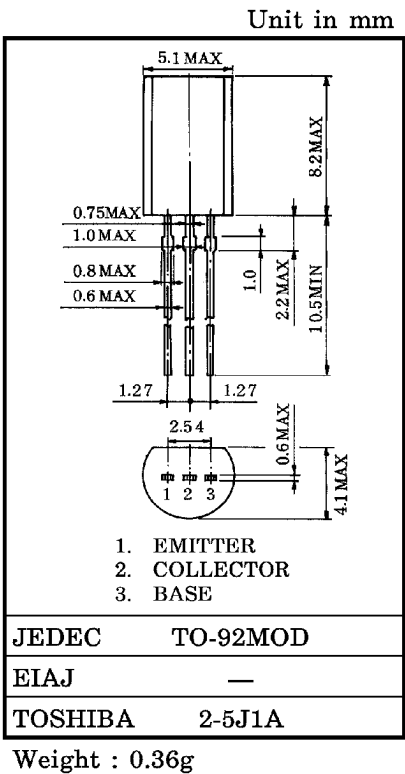
2SA817A

DRIVER STAGE AMPLIFIER APPLICATIONS.
VOLTAGE AMPLIFIER APPLICATIONS.

- Complementary to 2SC1627A.
- Driver Stage Application of 30 to 35 Watts Amplifiers.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	−80	V
Collector-Emitter Voltage	V _{CEO}	−80	V
Emitter-Base Voltage	V _{EBO}	−5	V
Collector Current	I _C	−400	mA
Emitter Current	I _E	400	mA
Collector Power Dissipation	P _C	800	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	−55~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} = −50V, I _E = 0	—	—	−100	nA
Emitter Cut-off Current	I _{EBO}	V _{EB} = −5V, I _C = 0	—	—	−100	nA
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = −5mA, I _B = 0	−80	—	—	V
DC Current Gain	h _{FE} (1) (Note)	V _{CE} = −2V, I _C = −50mA	70	—	240	
	h _{FE} (2)	V _{CE} = −2V, I _C = −200mA	40	—	—	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = −200mA, I _B = −20mA	—	—	−0.4	V
Base-Emitter Voltage	V _{BE}	V _{CE} = −2V, I _C = −5mA	−0.55	—	−0.8	V
Transition Frequency	f _T	V _{CE} = −10V, I _C = −10mA	—	100	—	MHz
Collector Output Capacitance	C _{ob}	V _{CB} = −10V, I _E = 0, f = 1MHz	—	14	—	pF

Note : h_{FE}(1) Classification O : 70~140, Y : 120~240

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