

2SA817A

Driver-Stage Amplifier Applications

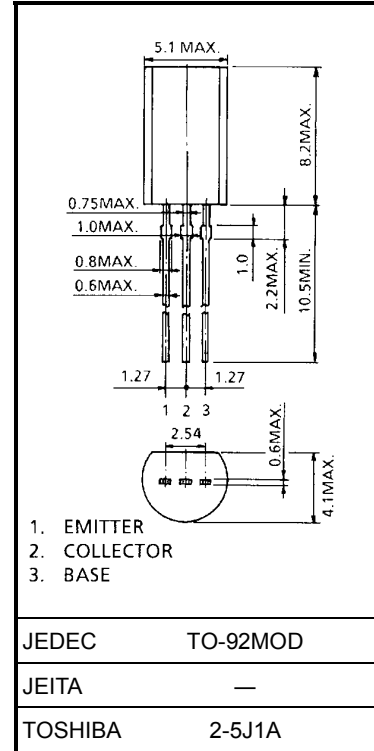
Voltage Amplifier Applications

Unit: mm

- Complementary to 2SC1627A.
- Driver stage application of 30 to 35 watts amplifiers.

Maximum Ratings (Ta = 25°C)

Characteristics	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 to 150	°C

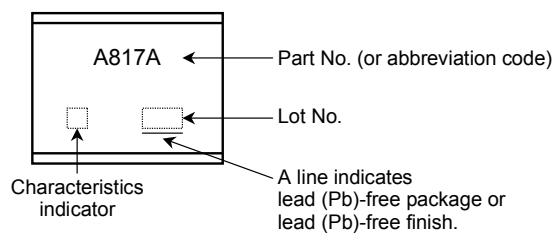


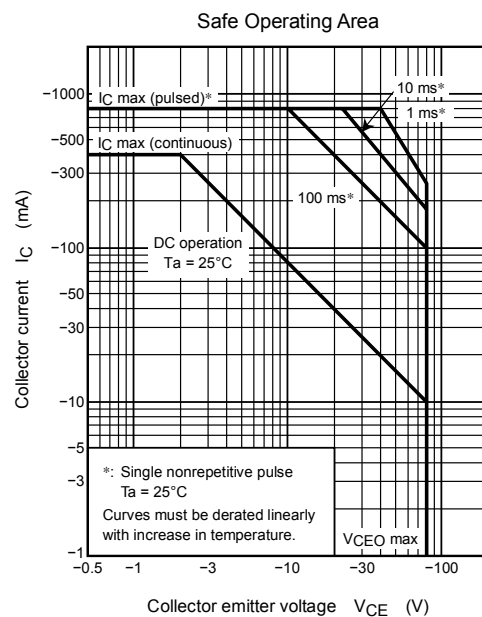
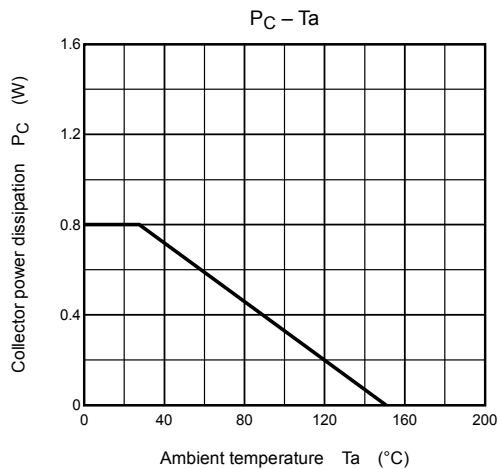
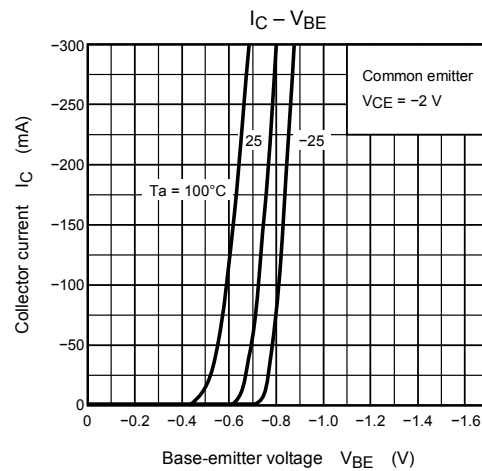
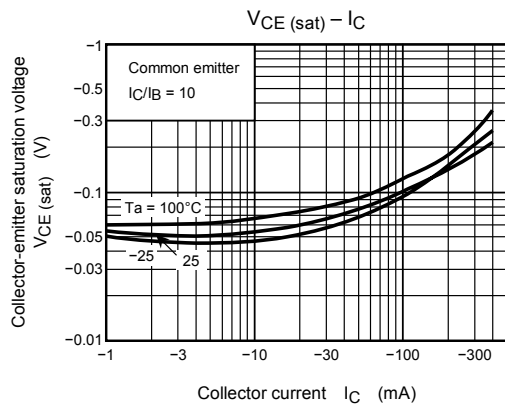
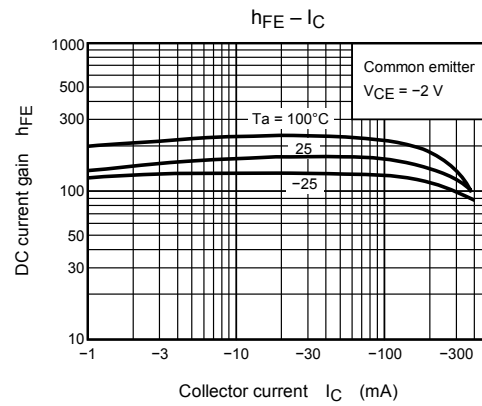
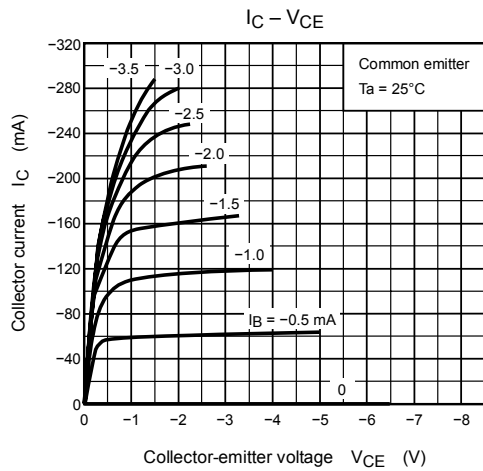
Electrical Characteristics (Ta = 25°C)

Weight: 0.36 g (typ.)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I_{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$	—	—	-100	nA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$	—	—	-100	nA
Collector-emitter breakdown voltage	$V_{(BR) CEO}$	$I_C = -5 \text{ mA}, I_B = 0$	-80	—	—	V
DC current gain	$h_{FE (1)}$ (Note)	$V_{CE} = -2 \text{ V}, I_C = -50 \text{ mA}$	70	—	240	
	$h_{FE (2)}$	$V_{CE} = -2 \text{ V}, I_C = -200 \text{ mA}$	40	—	—	
Collector-emitter saturation voltage	$V_{CE (sat)}$	$I_C = -200 \text{ mA}, I_B = -20 \text{ mA}$	—	—	-0.4	V
Base-emitter voltage	V_{BE}	$V_{CE} = -2 \text{ V}, I_C = -5 \text{ mA}$	-0.55	—	-0.8	V
Transition frequency	f_T	$V_{CE} = -10 \text{ V}, I_C = -10 \text{ mA}$	—	100	—	MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$	—	14	—	pF

Note: $h_{FE (1)}$ classification O: 70 to 140, Y: 120 to 240

Marking



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