

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

2SC1627A

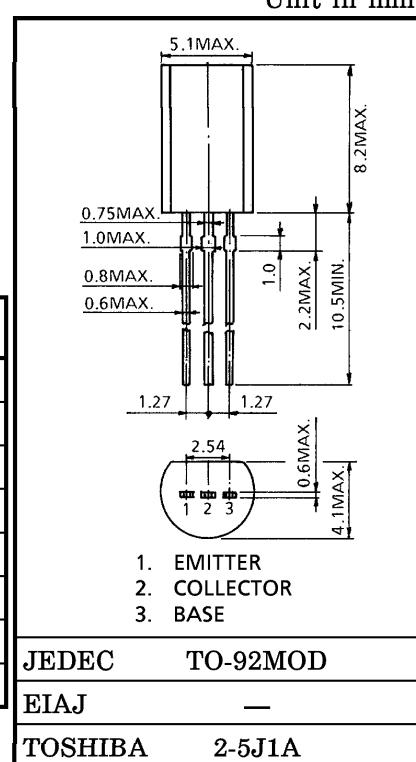
DRIVER STAGE AMPLIFIER APPLICATIONS.

VOLTAGE AMPLIFIER APPLICATIONS.

- Complementary to 2SA817A.
- Driver Stage Application of 30 to 35 Watts Amplifiers.

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

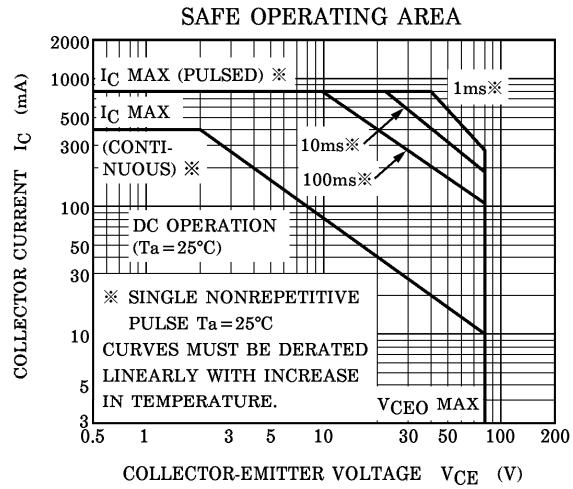
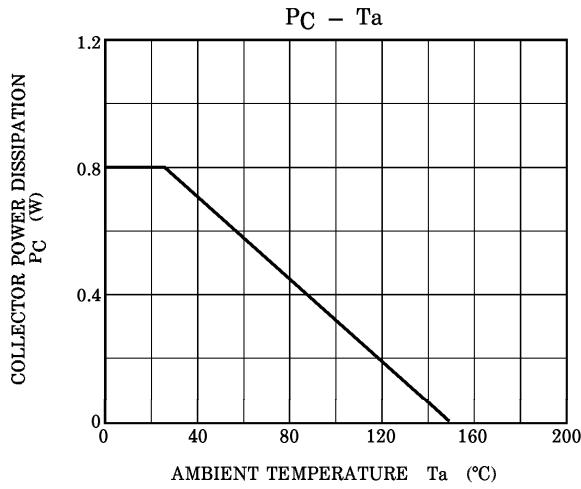
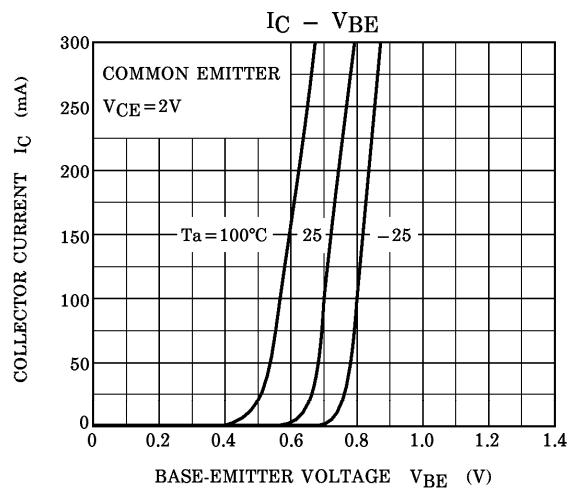
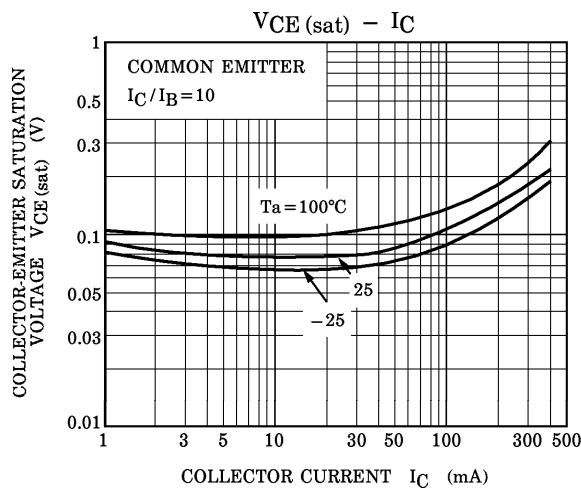
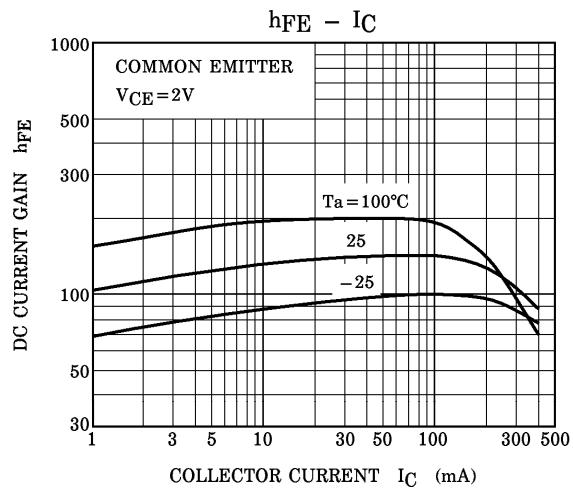
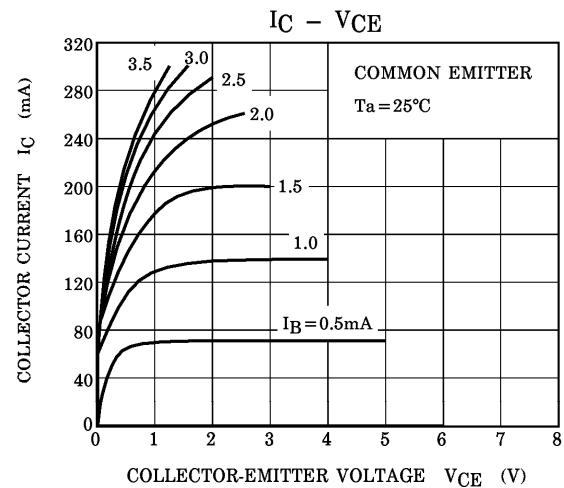
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	80	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	400	mA
Base Current	I_B	40	mA
Collector Power Dissipation	P_C	800	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55\text{--}150$	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

Weight : 0.36g

CHARACTERISTIC	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	$V_{CE(\text{sat})}$	$I_C=200\text{mA}$, $I_B=20\text{mA}$	—	—	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}	$V_{CB}=10\text{V}$, $f=1\text{MHz}$	—	10	—	pF

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



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