

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07500

D 7-33-05

SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

2SC2194A

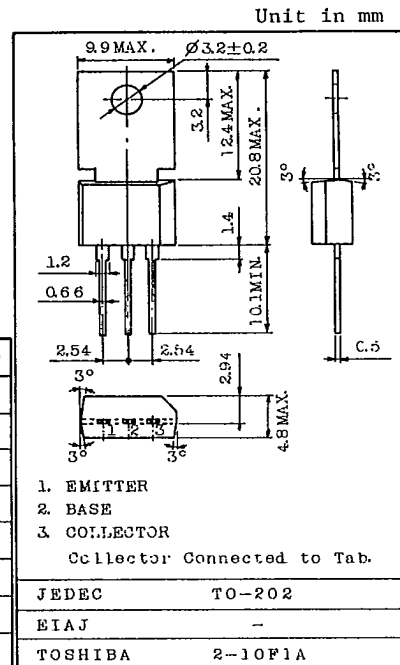
POWER AMPLIFIER APPLICATIONS.

FEATURES:

- Suitable for TV Sound Output, Vert. Deflection Output.
- Designed for Complementary Use with 2SA962A.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	60	V
Collector-Emitter Voltage	V_{CE0}	50	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_C	1.5	A
Emitter Current	I_E	-1.5	A
Collector Power Dissipation	P_C	1.5	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ\text{C}$



Weight : 1.37g

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

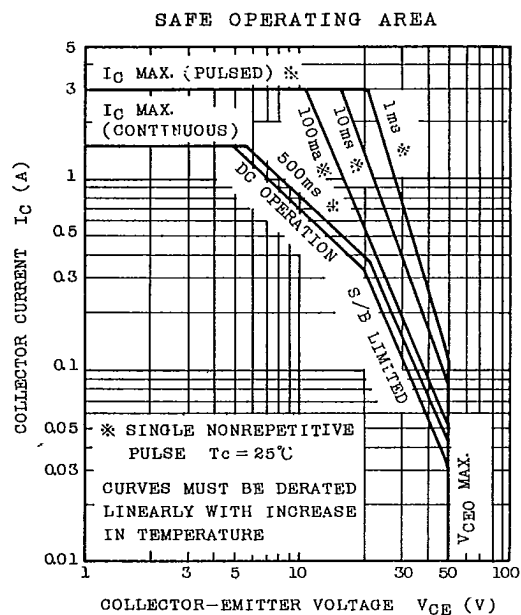
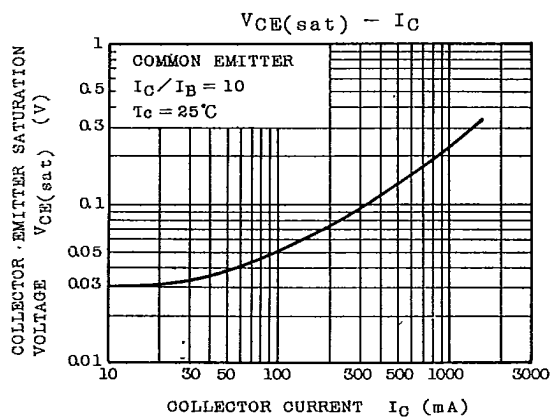
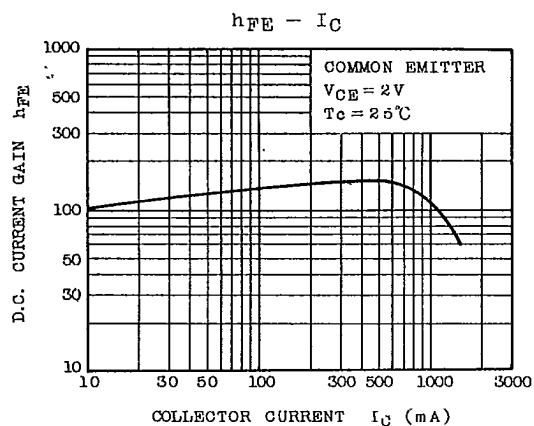
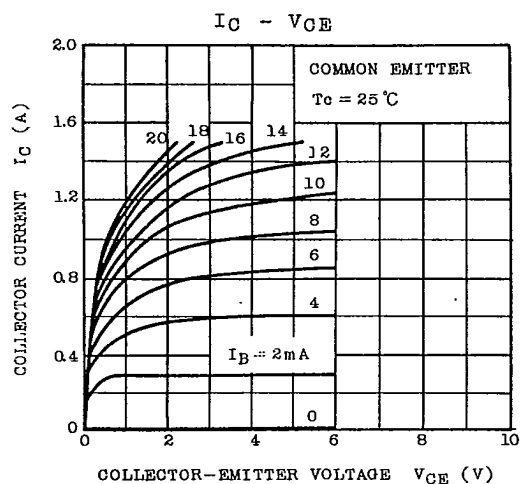
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CB0}	$V_{CB}=50\text{V}, I_E=0$	-	-	1.0	μA
Emitter Cut-off Current	I_{EB0}	$V_{EB}=5\text{V}, I_C=0$	-	-	1.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10\text{mA}, I_B=0$	50	-	-	V
DC Current Gain	h_{FE}	$V_{CE}=2\text{V}, I_C=150\text{mA}$	70	-	240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1\text{A}, I_B=0.1\text{A}$	-	-	1.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=10\text{V}, I_C=10\text{mA}$	0.50	0.60	0.70	V
Transition Frequency	f_T	$V_{CE}=10\text{V}, I_C=100\text{mA}$	50	100	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	-	20	-	pF

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