TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

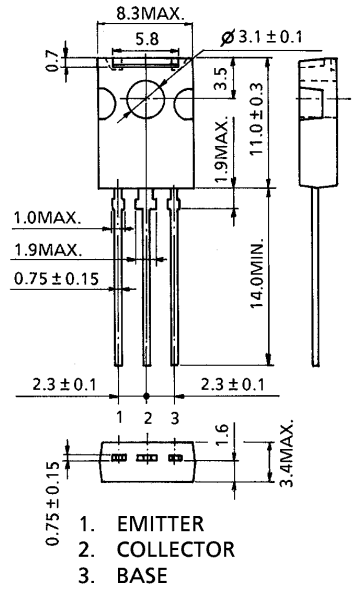
2SA1408

COLOR TV VERT. DEFLECTION OUTPUT APPLICATIONS

COLOR TV CLASS B SOUND OUTPUT APPLICATIONS

- Large Collector Current and Collector Power Dissipation Capability.
- Recommended for Vert. Deflection Output and Sound Output Applications for Line Operated TV.
- Complementary to 2SC3621.

Unit in mm



JEDEC	—
JEITA	—
TOSHIBA	2-8H1A

Weight : 0.82 g (Typ.)

MAXIMUM RATINGS (Tc = 25°C)

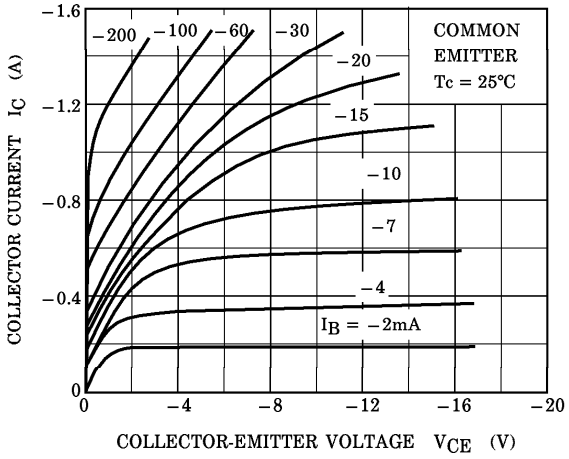
CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	−150	V
Collector-Emitter Voltage		V_{CEO}	−150	V
Emitter-Base Voltage		V_{EBO}	−6	V
Collector Current		I_C	−1.5	A
Base Current		I_B	−1.0	A
Collector Power Dissipation	Ta = 25°C	P_C	1.5	W
	Tc = 25°C		10	
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	−55~150	°C

ELECTRICAL CHARACTERISTICS (Tc = 25°C)

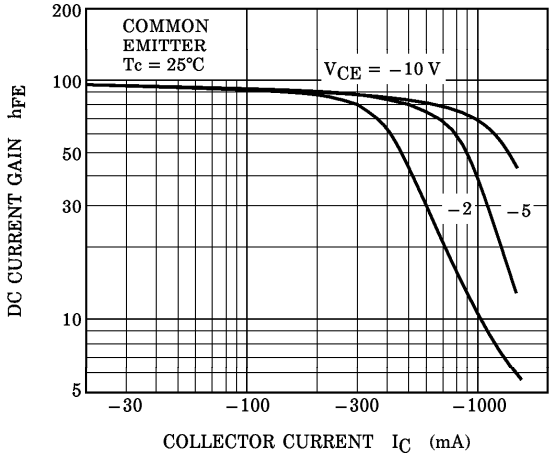
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB} = −150 V, I_E = 0	—	—	−1.0	μA
Emitter Cut-off Current	I_{EBO}	V_{EB} = −6 V, I_C = 0	—	—	−1.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C = −10 mA, I_B = 0	−150	—	—	V
DC Current Gain	h_{FE} (Note)	V_{CE} = −5 V, I_C = −200 mA	60	—	200	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C = −500 mA, I_B = −50 mA	—	—	−1.5	V
Base-Emitter Voltage	V_{BE}	V_{CE} = −5 V, I_C = −5 mA	−0.5	—	−0.8	V
Transition Frequency	f_T	V_{CE} = −5 V, I_C = −200 mA	15	50	—	MHz
Collector Output Capacitance	C_{ob}	V_{CB} = −10 V, I_E = 0, f = 1 MHz	—	—	35	pF

(Note) : h_{FE} Classification R : 60~120 O : 100~200

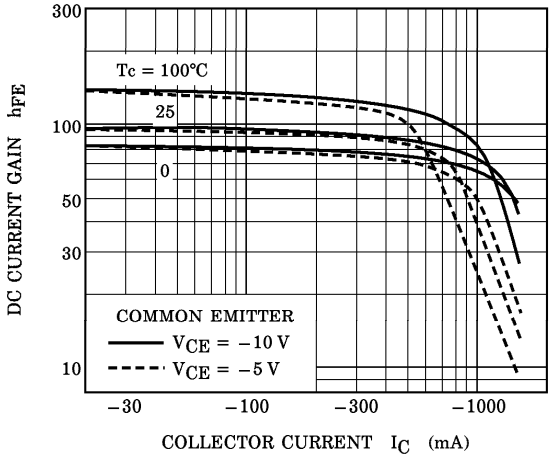
I_C – V_{CE}



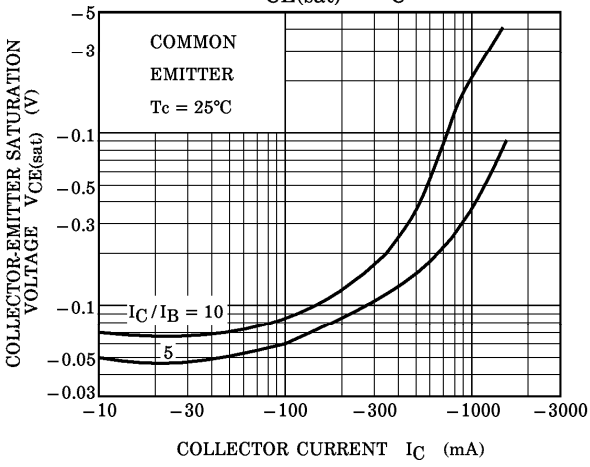
h_{FE} – I_C



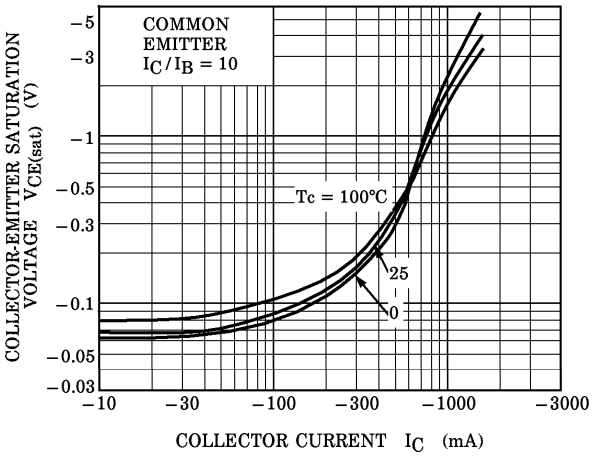
h_{FE} – I_C



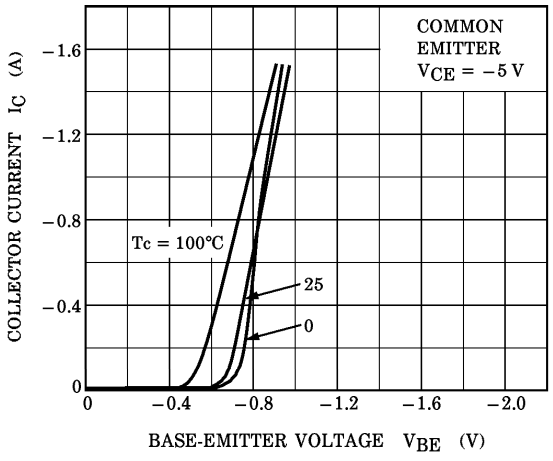
$V_{CE(sat)}$ – I_C



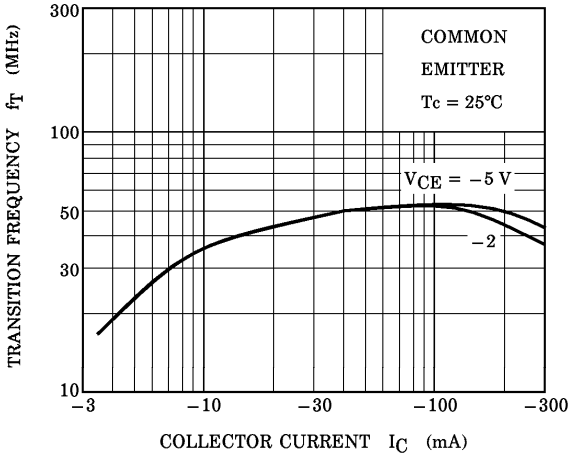
$V_{CE(sat)}$ – I_C



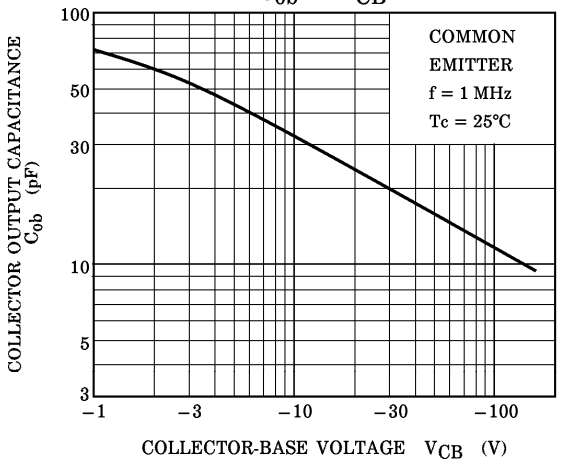
I_C – V_{BE}



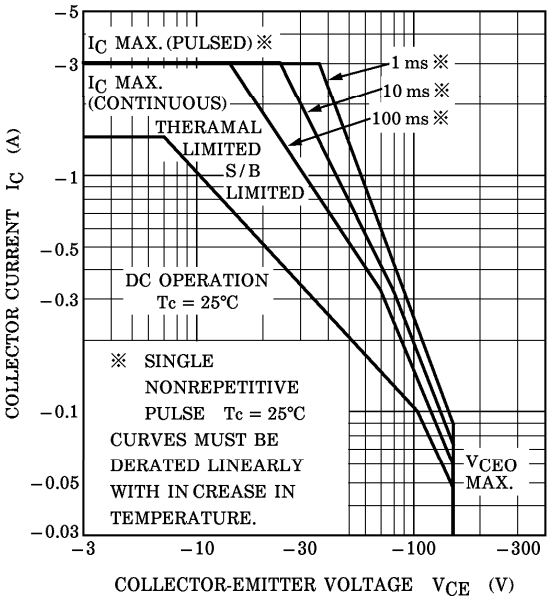
$f_T - I_C$



$C_{ob} - V_{CB}$



SAFE OPERATING AREA



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