TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE (PCT PROCESS)

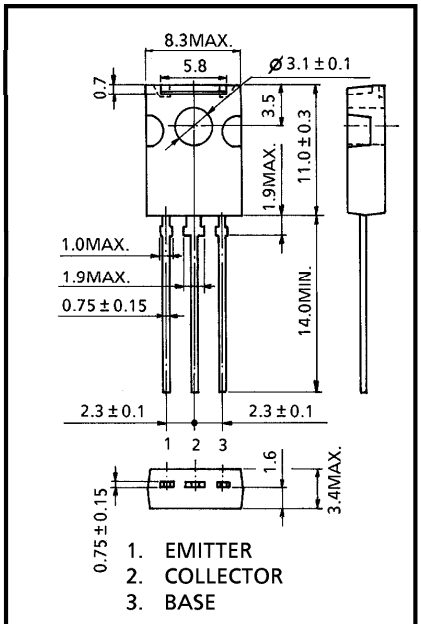
2SC3620

COLOR TV HORIZONTAL DRIVER APPLICATIONS

COLOR TV CHROMA OUTPUT APPLICATIONS

- High Voltage : V_{CEO} = 300V
- Recommended for Chroma Output and Driver Application for Line Operated TV Horizontal.

Unit in mm



JEDEC	—
JEITA	—
TOSHIBA	2-8H1A

Weight : 0.82g (Typ.)

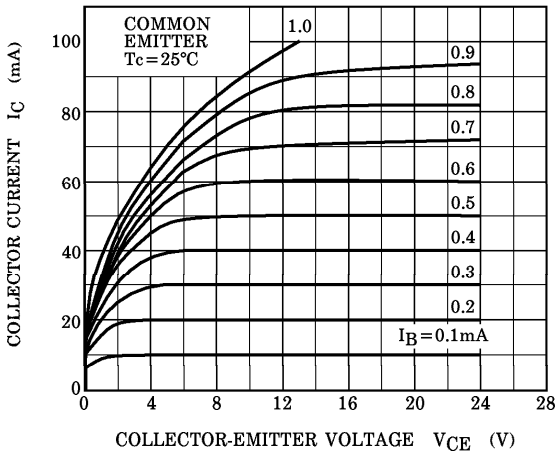
MAXIMUM RATINGS (Tc = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	300	V
Collector-Emitter Voltage	V_{CEO}	300	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	I_C	100	mA
Base Current	I_B	50	mA
Collector Power Dissipation	P_C	1.5	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	−55~150	°C

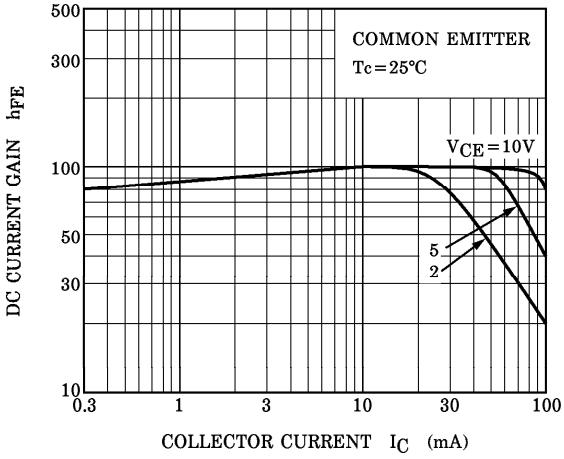
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB} = 240V, I_E = 0	—	—	1.0	μA
Emitter Cut-off Current	I_{EBO}	V_{EB} = 7V, I_C = 0	—	—	1.0	μA
DC Current Gain	$h_{FE\ (1)}$	V_{CE} = 10V, I_C = 50mA	40	—	170	
	$h_{FE\ (2)}$	V_{CE} = 10V, I_C = 100mA	20	—	—	
Collector-Emitter Saturation Voltage	$V_{CE\ (sat)}$	I_C = 100mA, I_B = 20mA	—	—	1.0	V
Base-Emitter Saturation Voltage	$V_{BE\ (sat)}$	I_C = 100mA, I_B = 20mA	—	—	1.2	V
Transition Frequency	f_T	V_{CE} = 10V, I_C = 30mA	50	—	—	MHz
Collector Output Capacitance	C_{ob}	V_{CB} = 50V, I_E = 0, f = 1MHz	—	—	5.0	pF

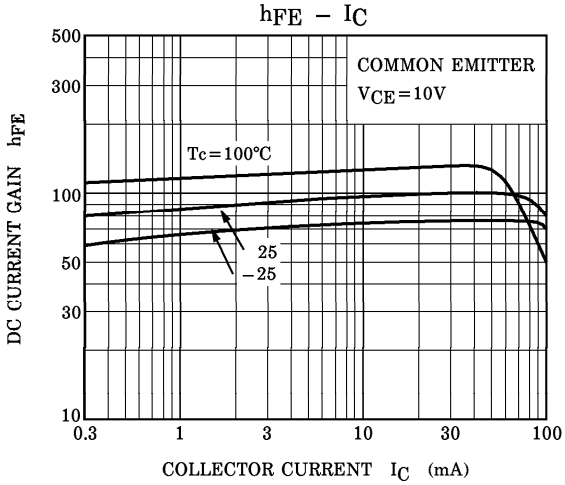
$I_C - V_{CE}$



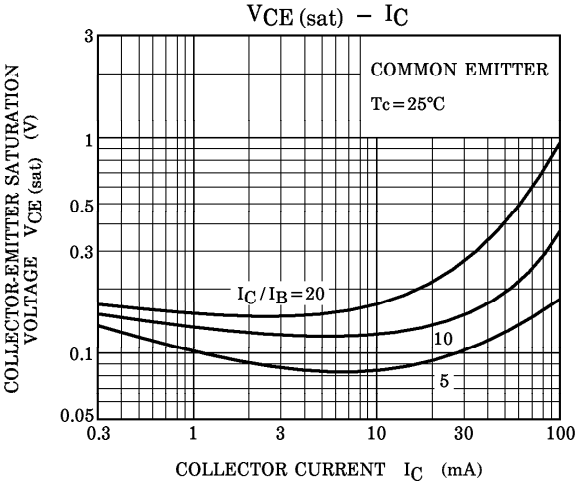
$h_{FE} - I_C$



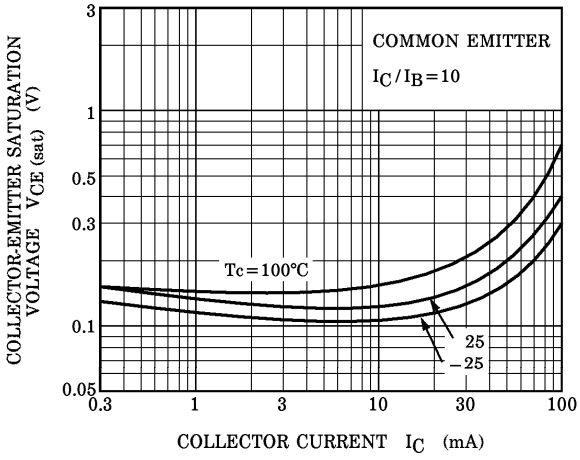
$h_{FE} - I_C$



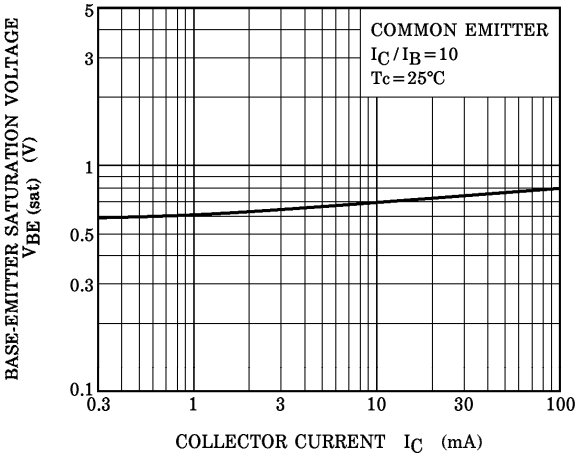
$V_{CE\,(sat)} - I_C$



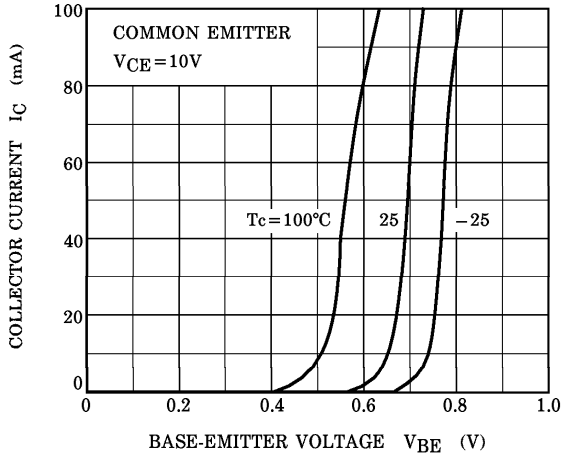
$V_{CE\,(sat)} - I_C$



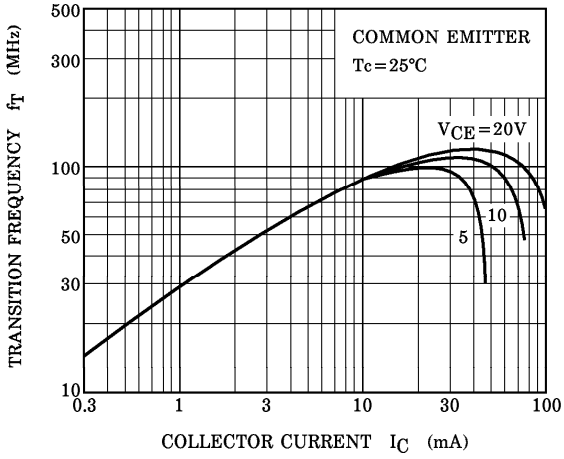
$V_{BE\,(sat)} - I_C$



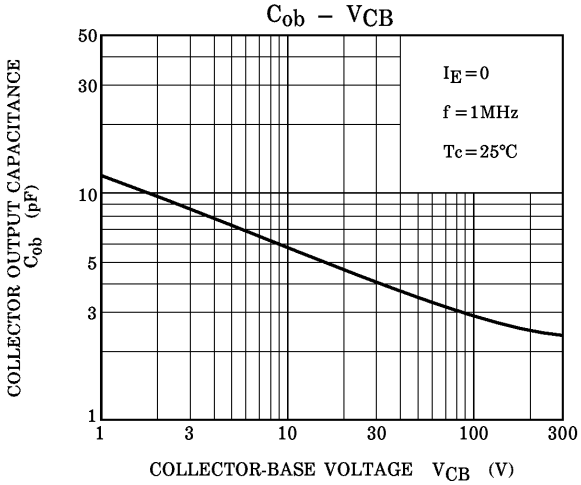
I_C – V_{BE}



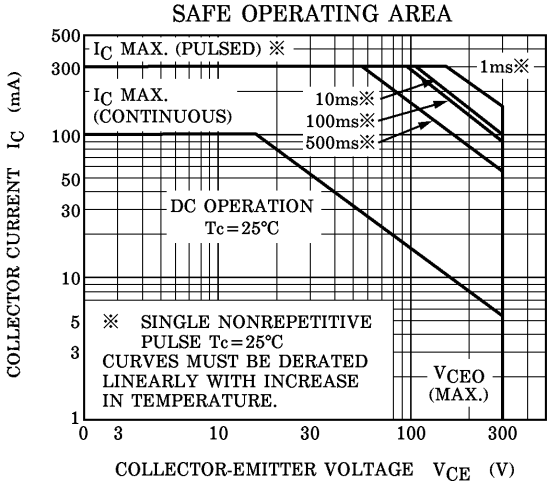
f_T – I_C



C_{ob} – V_{CB}



SAFE OPERATING AREA



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