Unit in mm

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE (PCT PROCESS)

2 S C 3 6 1 9

HIGH VOLTAGE SWITCHING AND AMPLIFIER APPLICATIONS
COLOR TV HORIZONTAL DRIVER APPLICATIONS
COLOR TV CHROMA OUTPUT APPLICATIONS

• High Voltage : V_{CEO}=300V

• Small Collector Output Capacitance : Cob=3.0pF (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	$I_{\mathbf{C}}$	100	mA
Base Current	$I_{\mathbf{B}}$	50	mA
Collector Power Dissipation	$P_{\mathbf{C}}$	1.5	w
Junction Temperature	$T_{ m j}$	150	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~150	°C

8.3MAX.
5.8

93.1±0.1

1.0MAX.
1.9MAX.
0.75±0.15

1. EMITTER
2. COLLECTOR
3. BASE

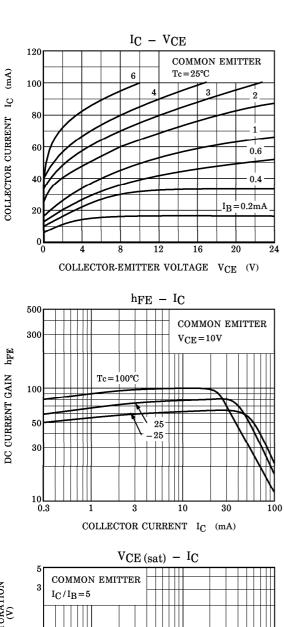
JEDEC
—
JEITA
—
TOSHIBA
2-8H1A

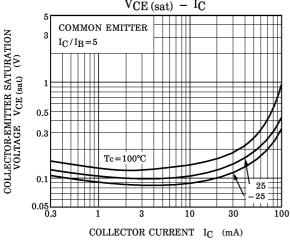
Weight: 0.82g (Typ.)

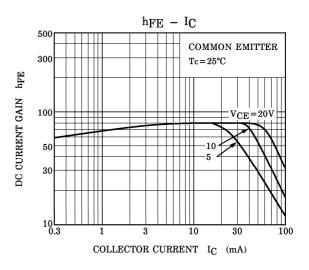
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

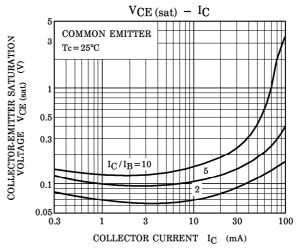
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = 240V, I_{E} = 0$	_	_	1.0	μ A
Emitter Cut-off Current	${ m I}_{ m EBO}$	$V_{EB}=7V, I_{C}=0$	_	_	1.0	μ A
DC Current Gain	h _{FE (1)}	$V_{CE}=10V$, $I_{C}=4mA$	20	_	_	
	h _{FE (2)}	$V_{\text{CE}} = 10V$, $I_{\text{C}} = 20\text{mA}$	30	_	200	
Collector-Emitter Saturation Voltage	V _{CE (sat)}	$I_{C}=10$ mA, $I_{B}=1$ mA	_	_	1.0	V
Base-Emitter Saturation Voltage	V _{BE} (sat)	$I_{C}=10$ mA, $I_{B}=1$ mA	_	_	1.0	V
Transition Frequency	$ m f_T$	$V_{\text{CE}} = 10V$, $I_{\text{C}} = 20\text{mA}$	50	_	_	MHz
Collector Output Capacitance	$C_{ m ob}$	$V_{CB} = 20V, I_{E} = 0, f = 1MHz$	_	3.0	_	pF

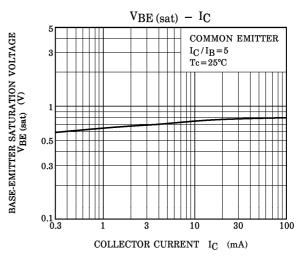
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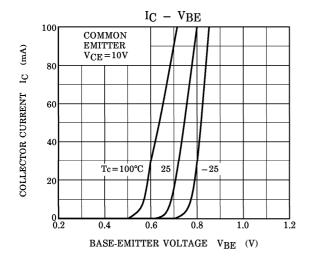


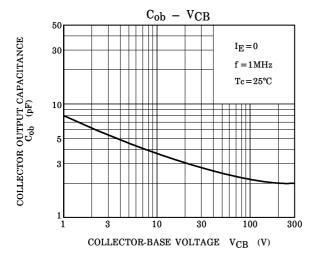


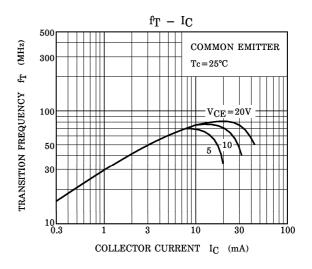


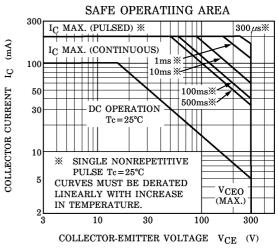


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