

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE (PCT PROCESS)

2SC3620

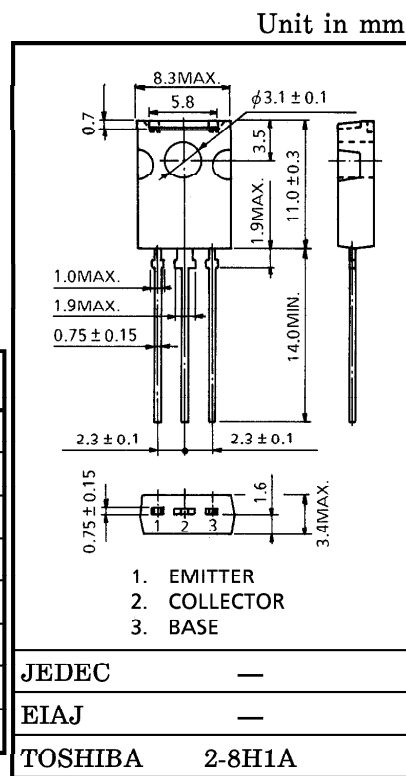
COLOR TV HORIZONTAL DRIVER APPLICATIONS.

COLOR TV CHROMA OUTPUT APPLICATIONS.

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

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

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	$^\circ C$
Storage Temperature Range	T_{stg}	$-55 \sim 150$	$^\circ C$

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

Weight : 0.82g

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

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