

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE (PCT PROCESS)

2SC3620

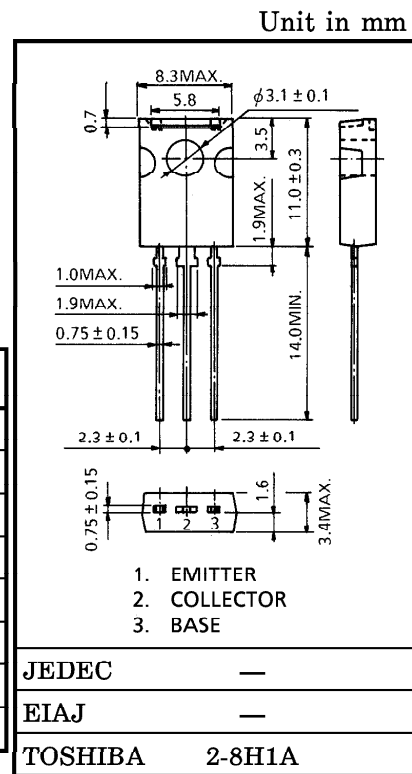
COLOR TV HORIZONTAL DRIVER APPLICATIONS.

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} | -55~150 | $^\circ C$ |



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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