

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL TYPE

2SC2383

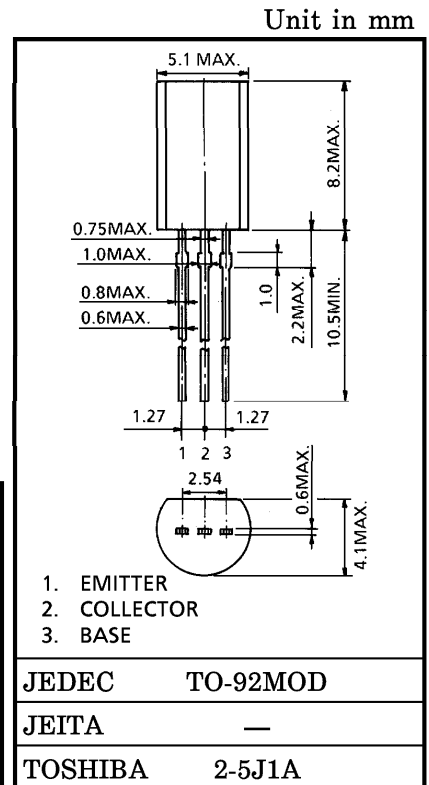
COLOR TV VERT. DEFLECTION OUTPUT APPLICATIONS

COLOR TV CLASS B SOUND OUTPUT APPLICATIONS

- High Voltage : $V_{CEO} = 160\text{ V}$
- Large Continuous Collector Current Capability.
- Recommended for Vert. Deflection Output & Sound Output Applications for Line Operated TV.
- Complementary to 2SA1013

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

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|---------|------------------|
| Collector-Base Voltage | V_{CBO} | 160 | V |
| Collector-Emitter Voltage | V_{CEO} | 160 | V |
| Emitter-Base Voltage | V_{EBO} | 6 | V |
| Collector Current | I_C | 1 | A |
| Base Current | I_B | 0.5 | A |
| Collector Power Dissipation | P_C | 900 | mW |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55~150 | $^\circ\text{C}$ |

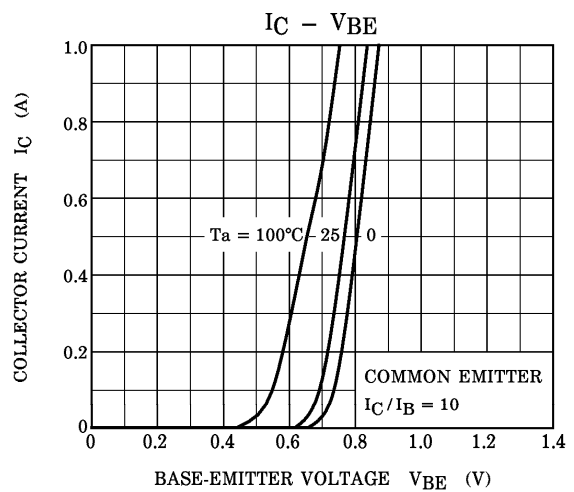
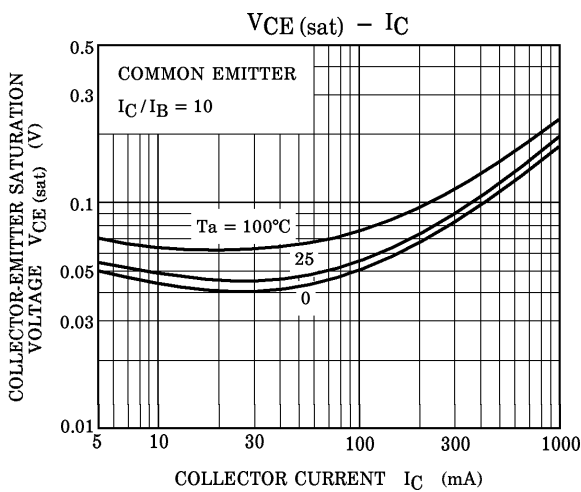
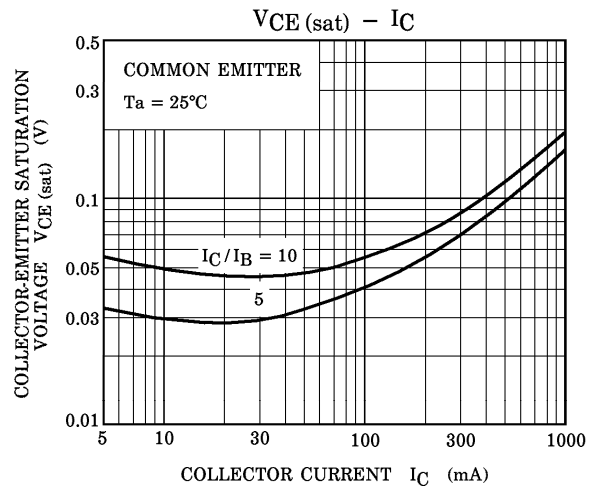
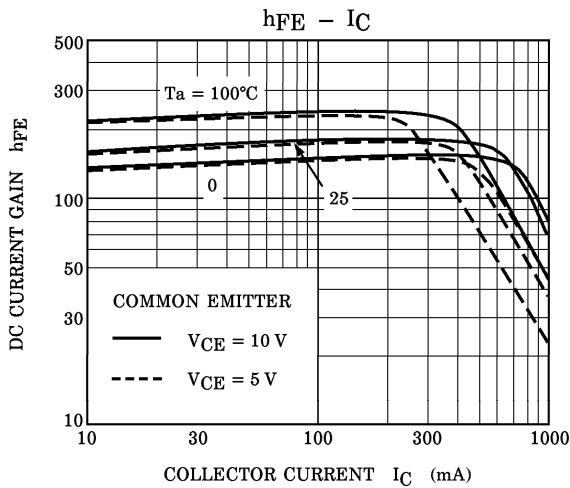
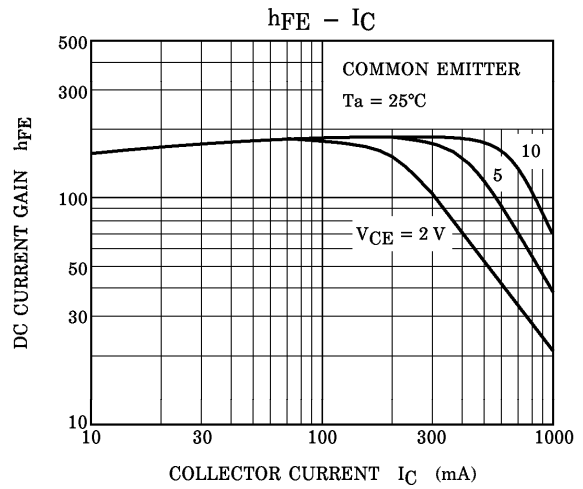
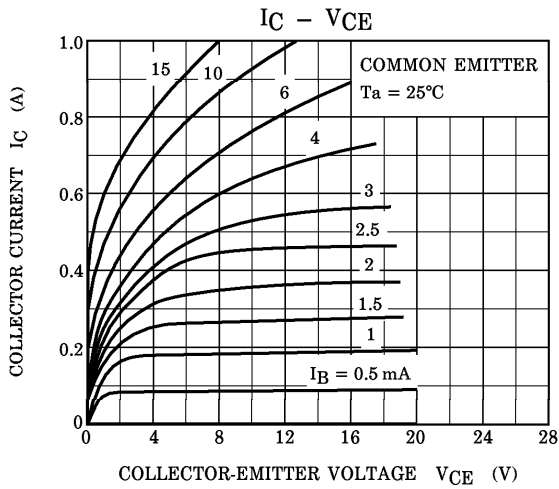


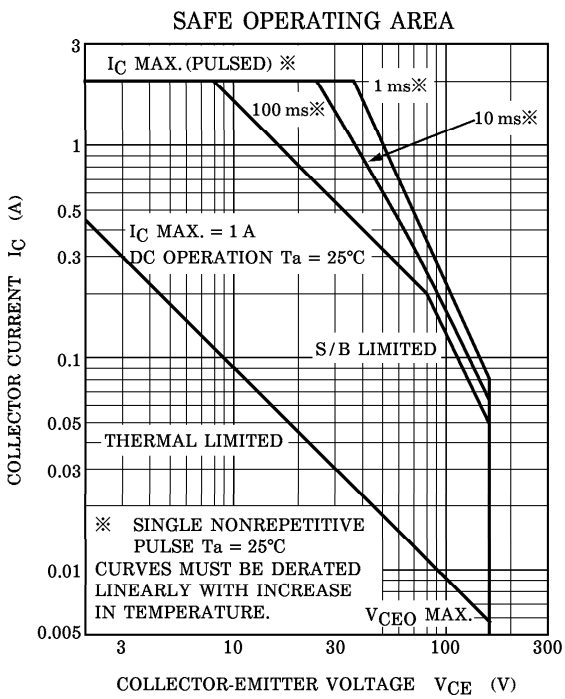
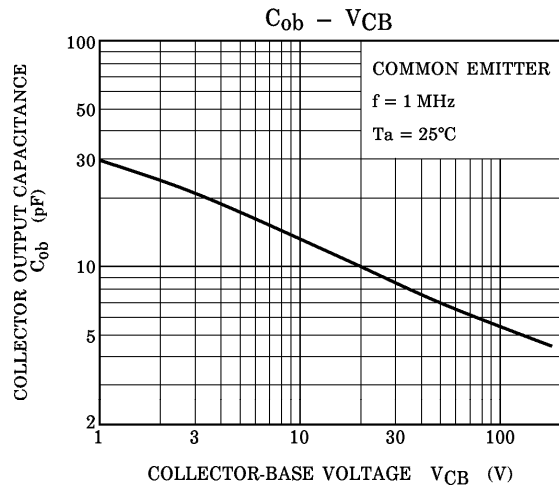
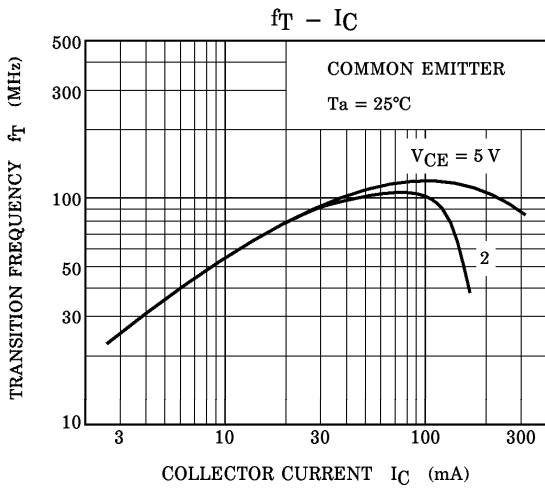
Weight : 0.36 g (Typ.)

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

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-----------------|--|------|------|------|---------------|
| Collector Cut-off Current | I_{CBO} | $V_{CB} = 150\text{ V}, I_E = 0$ | — | — | 1.0 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB} = 6\text{ V}, I_C = 0$ | — | — | 1.0 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C = 10\text{ mA}, I_B = 0$ | 160 | — | — | V |
| DC Current Gain | h_{FE} (Note) | $V_{CE} = 5\text{ V}, I_C = 200\text{ mA}$ | 60 | — | 320 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = 500\text{ mA}, I_B = 50\text{ mA}$ | — | — | 1.5 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE} = 5\text{ V}, I_C = 5\text{ mA}$ | 0.45 | — | 0.75 | V |
| Transition Frequency | f_T | $V_{CE} = 5\text{ V}, I_C = 200\text{ mA}$ | 20 | 100 | — | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB} = 10\text{ V}, I_E = 0,$ $f = 1\text{ MHz}$ | — | — | 20 | pF |

(Note) : h_{FE} Classification R : 60~120, O : 100~200, Y : 160~320





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