TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

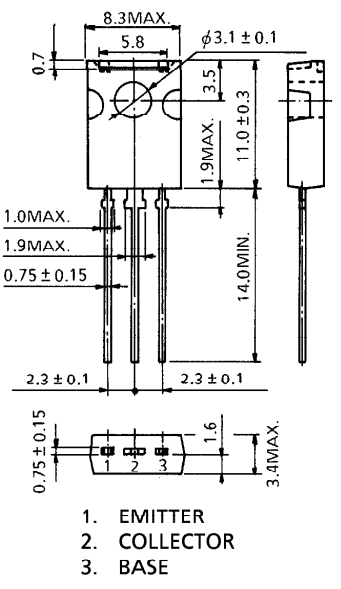
# 2SC3621

COLOR TV VERT. DEFLECTION OUTPUT APPLICATIONS.

COLOR TV CLASS B SOUND OUTPUT APPLICATIONS.

- Large Collector Current and Collector Power Dissipation Capability.
- Recommended for Vert. Deflection Output and Sound Output Applications for Line Operated TV.
- Complementary to 2SA1408.

Unit in mm




1. EMITTER
2. COLLECTOR
3. BASE

| | |
|---|---|
| JEDEC | — |
| EIAJ | — |
| TOSHIBA | 2-8H1A |

Weight : 0.82g

MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|---|---|---|---|---|
| Collector-Base Voltage | | $V_{CBO}$ | 150 | V |
| Collector-Emitter Voltage | | $V_{CEO}$ | 150 | V |
| Emitter-Base Voltage | | $V_{EBO}$ | 6 | V |
| Collector Current | | $I_C$ | 1.5 | A |
| Base Current | | $I_B$ | 1.0 | A |
| Collector Power Dissipation | Ta = 25°C | $P_C$ | 1.5 | W |
| | Tc = 25°C | | 10 | |
| Junction Temperature | | $T_j$ | 150 | °C |
| Storage Temperature Range | | $T_{stg}$ | −55~150 | °C |

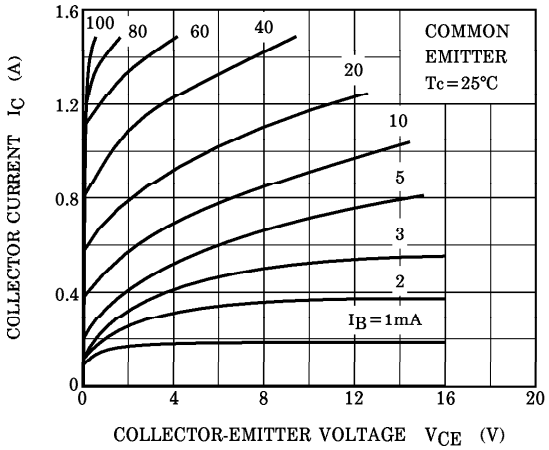
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---|---|---|---|---|---|---|
| Collector Cut-off Current | $I_{CBO}$ | $V_{CB}$ = 150V, $I_E$ = 0 | — | — | 1.0 | μA |
| Emitter Cut-off Current | $I_{EBO}$ | $V_{EB}$ = 6V, $I_C$ = 0 | — | — | 1.0 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C$ = 10mA, $I_B$ = 0 | 150 | — | — | V |
| DC Current Gain | $h_{FE}$ (Note) | $V_{CE}$ = 5V, $I_C$ = 200mA | 60 | — | 200 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C$ = 500mA, $I_B$ = 50mA | — | — | 1.5 | V |
| Base-Emitter Voltage | $V_{BE}$ | $V_{CE}$ = 5V, $I_C$ = 5mA | 0.5 | — | 0.8 | V |
| Transition Frequency | $f_T$ | $V_{CE}$ = 5V, $I_C$ = 200mA | 20 | 100 | — | MHz |
| Collector Output Capacitance | $C_{ob}$ | $V_{CB}$ = 10V, $I_E$ = 0, f = 1MHz | — | 13 | 20 | pF |

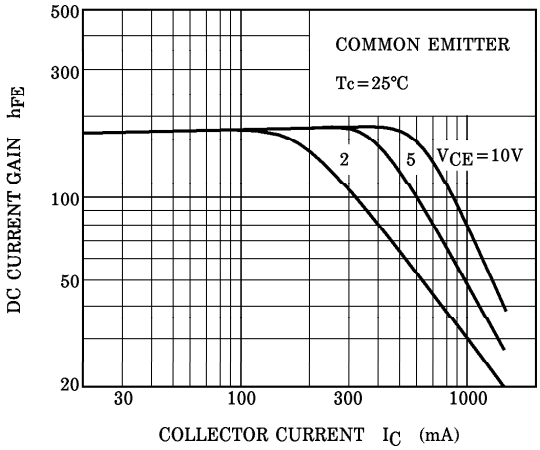
Note : $h_{FE}$ Classification R : 60~120, O : 100~200

961001EAA2

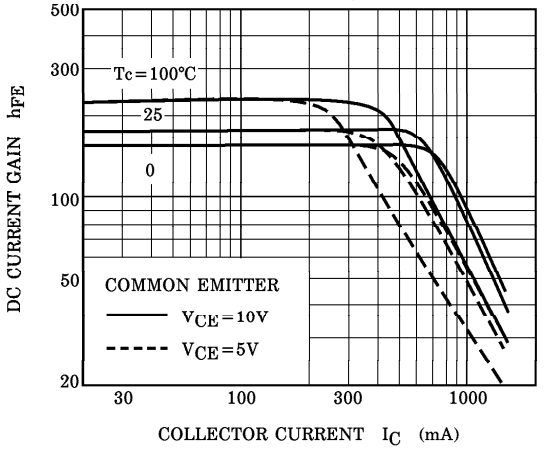
$I_C$ – $V_{CE}$



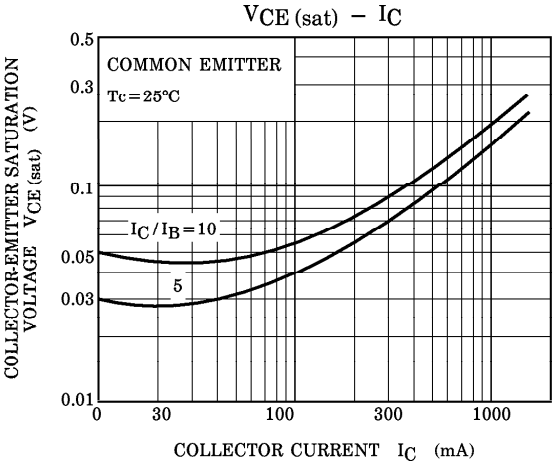

$h_{FE}$ – $I_C$



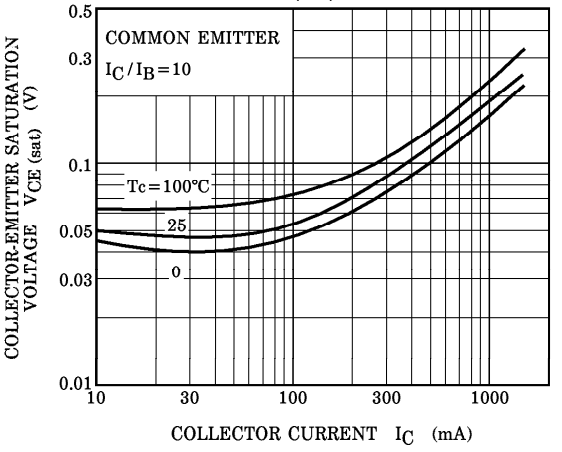

$h_{FE}$ – $I_C$



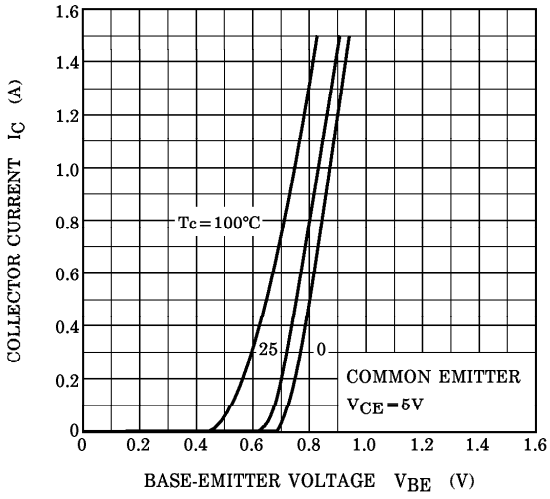

$V_{CE\,(sat)}$ – $I_C$



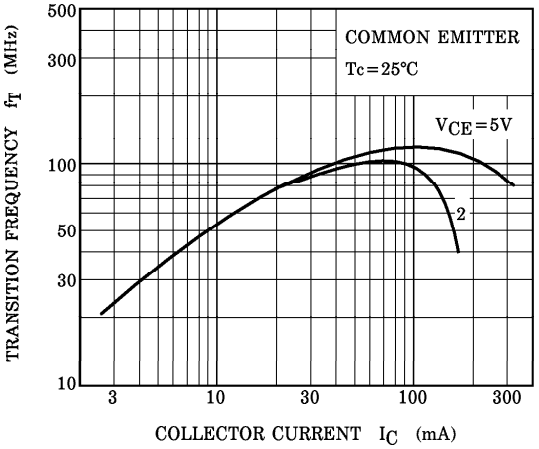

$V_{CE\,(sat)}$ – $I_C$



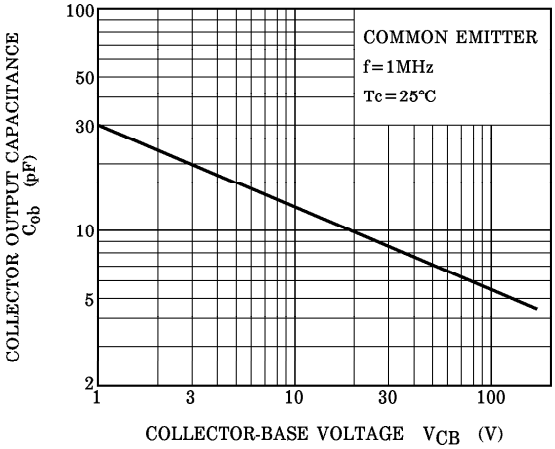

$I_C$ – $V_{BE}$



$f_T$ – $I_C$




$C_{ob}$ – $V_{CB}$




SAFE OPERATING AREA