Unit: mm

TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT Process)

2SC2482

High-Voltage Switching and Amplifier Applications Color TV Horizontal Driver Applications Color TV Chroma Output Applications

- High breakdown voltage: VCEO = 300 V
- Small collector output capacitance: Cob = 3.0 pF (typ.)
- Recommended for chroma output and driver applications for line-operated TV horizontal.

Absolute Maximum Ratings (Ta = 25°C)

| Characteristics | 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 | IC | 100 | mA |
| Base current | ΙB | 50 | mA |
| Collector power dissipation | PC | 900 | mW |
| Junction temperature | Tj | 150 | °C |
| Storage temperature range | T _{stg} | -55 to 150 | °C |

1. EMITTER
2. COLLECTOR
3. BASE

JEDEC TO-92MOD

JEITA —

TOSHIBA 2-5J1A

Weight: 0.36 g (typ.)

Note: Using continuously under heavy loads (e.g. the application of high

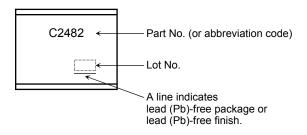
temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/Derating Concept and Methods) and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

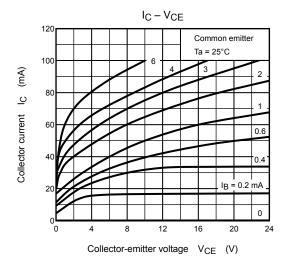
Electrical Characteristics (Ta = 25°C)

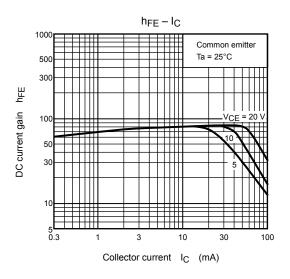
| Characteristics | Symbol | Test Condition | Min | Тур. | Max | Unit |
|--------------------------------------|-----------------------|---|-----|------|-----|------|
| Collector cut-off current | I _{CBO} | V _{CB} = 240 V, I _E = 0 | _ | _ | 1.0 | μΑ |
| Emitter cut-off current | I _{EBO} | V _{EB} = 7 V, I _C = 0 | _ | _ | 1.0 | μA |
| DC current gain | h _{FE (1)} | V _{CE} = 10 V, I _C = 4 mA | 20 | _ | _ | |
| | h _{FE (2)} | V _{CE} = 10 V, I _C = 20 mA | 30 | _ | 150 | |
| Collector-emitter saturation voltage | V _{CE} (sat) | I _C = 10 mA, I _B = 1 mA | _ | _ | 1.0 | ٧ |
| Base-emitter saturation voltage | V _{BE} (sat) | I _C = 10 mA, I _B = 1 mA | _ | _ | 1.0 | V |
| Transition frequency | f _T | V _{CE} = 10 V, I _C = 20 mA | 50 | _ | _ | MHz |
| Collector output capacitance | C _{ob} | V _{CB} = 20 V, I _E = 0, f = 1 MHz | _ | 3.0 | _ | pF |

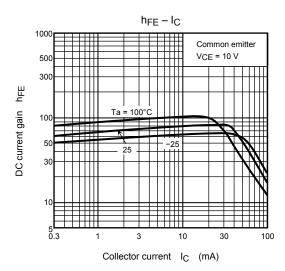
Marking

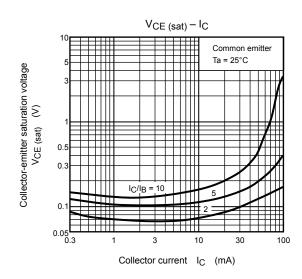


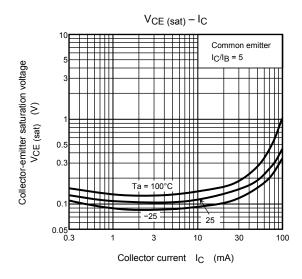
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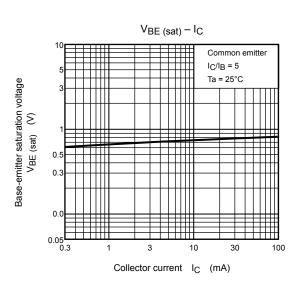


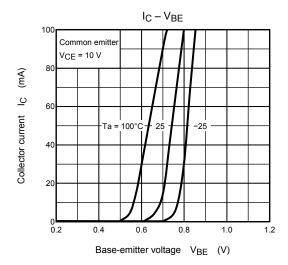


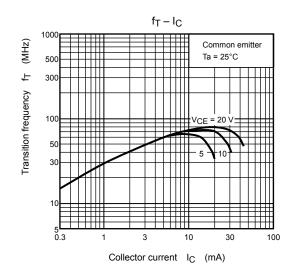


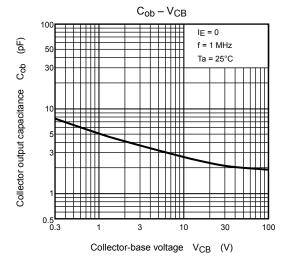


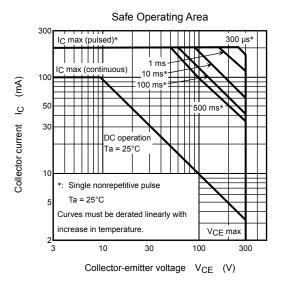












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