TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT Process)

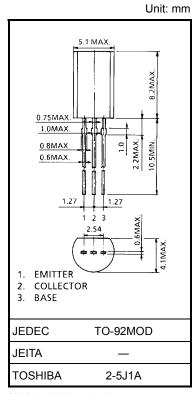
2SC2703

Audio Power Amplifier Applications

• High DC current gain: hFE = 100 to 320

Maximum Ratings (Ta = 25°C)

| Characteristics | Symbol | Rating | Unit | |
|-----------------------------|------------------|------------|------|--|
| Collector-base voltage | V_{CBO} | 30 | V | |
| Collector-emitter voltage | V _{CEO} | 30 | V | |
| Emitter-base voltage | V _{EBO} | 5 | V | |
| Collector current | Ic | 1 | Α | |
| Base current | Ι _Β | 0.1 | Α | |
| Collector power dissipation | P _C | 900 | mW | |
| Junction temperature | Tj | 150 | °C | |
| Storage temperature range | T _{stg} | -55 to 150 | °C | |



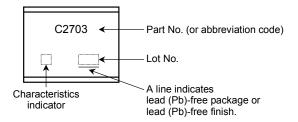
Weight: 0.36 g (typ.)

Electrical Characteristics (Ta = 25°C)

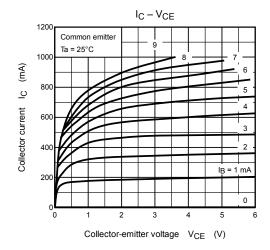
| Characteristics | Symbol | Test Condition | Min | Тур. | Max | Unit |
|--------------------------------------|-------------------------------|---|-----|------|-----|------|
| Collector cut-off current | I _{CBO} | V _{CB} = 30 V, I _E = 0 | _ | _ | 100 | nA |
| Emitter cut-off current | I _{EBO} | V _{EB} = 5 V, I _C = 0 | _ | _ | 100 | nA |
| Collector-emitter breakdown voltage | V (BR) CEO | I _C = 10 mA | 30 | _ | _ | V |
| DC current gain | h _{FE (1)} (Note) | V _{CE} = 2 V, I _C = 100 mA | 100 | _ | 320 | |
| | h _{FE (2)} | V _{CE} = 2 V, I _C = 800 mA | 40 | _ | _ | |
| Collector-emitter saturation voltage | V _{CE (sat)} | I _C = 800 mA, I _B = 80 mA | _ | _ | 0.5 | V |
| Base-emitter voltage | V _{BE} | V _{CE} = 2 V, I _C = 800 mA | _ | 0.9 | 1.5 | V |
| Transition frequency | f _T | V _{CE} = 2 V, I _C = 100 mA | _ | 150 | _ | MHz |
| Collector output capacitance | C _{ob} | V _{CB} = 10 V, f = 1 MHz | _ | 13 | _ | pF |

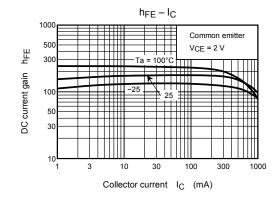
Note: $h_{FE\ (1)}$ classification O: 100 to 200, Y: 160 to 320

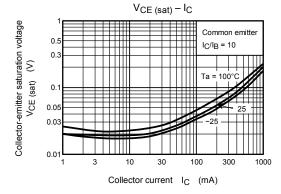
Marking

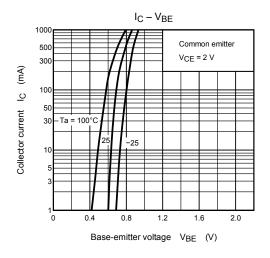


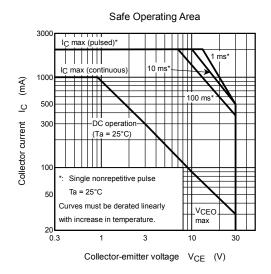
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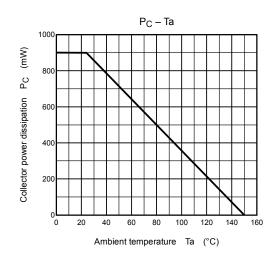












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Handbook" etc..

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