Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SB908

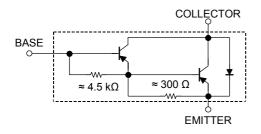
Switching Applications
Hammer Drive, Pulse Motor Drive Applications
Power Amplifier Applications

- High DC current gain: h_{FE} (1) = 2000 (min) (V_{CE} = -2 V, I_{C} = -1 A)
- Low saturation voltage: $V_{CE (sat)} = -1.5 \text{ V (max) (IC} = -3 \text{ A)}$
- Complementary to 2SD1223.

Maximum Ratings (Ta = 25°C)

| Characteristics | | Symbol | Rating | Unit | |
|-----------------------------|-----------|------------------|------------|------|--|
| Collector-base voltage | | V _{CBO} | -100 | V | |
| Collector-emitter voltage | | V _{CEO} | -80 | V | |
| Emitter-base voltage | | V _{EBO} | -5 | V | |
| Collector current | | I _C | -4 | А | |
| Base current | | Ι _Β | -0.4 | Α | |
| Collector power dissipation | Ta = 25°C | Pc | 1.0 | W | |
| | Tc = 25°C | 1 (| 15 | | |
| Junction temperature | | Tj | 150 | °C | |
| Storage temperature range | | T _{stg} | -55 to 150 | °C | |

Equivalent Circuit

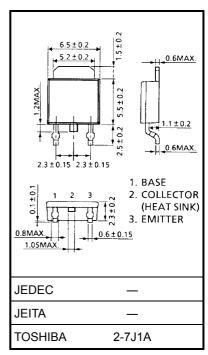


0.6 MAX. 0.6 ± 0.15 1. BASE 2. COLLECTOR (HEATSINK)

Weight: 0.36 g (typ.)

3. EMITTER

JEDEC JEITA TOSHIBA



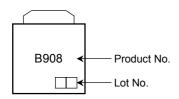
2-7B1A

Weight: 0.36 g (typ.)

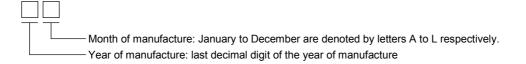
Electrical Characteristics (Ta = 25°C)

| Characteristics | | Symbol | Test Condition | Min | Тур. | Max | Unit |
|--------------------------------------|-------------------|-----------------------|---|------|------|------|------|
| Collector cut-off | current | I _{CBO} | V _{CB} = -100 V, I _E = 0 | - | _ | -20 | μΑ |
| Emitter cut-off cu | rrent | I _{EBO} | V _{EB} = -5 V, I _C = 0 | - | _ | -2.5 | mA |
| Collector-emitter | breakdown voltage | V (BR) CEO | I _C = -10 mA, I _B = 0 | -80 | _ | _ | V |
| DC current gain | | h _{FE (1)} | V _{CE} = -2 V, I _C = -1 A | 2000 | _ | _ | |
| | | h _{FE (2)} | V _{CE} = -2 V, I _C = -3 A | 1000 | _ | _ | |
| Collector-emitter saturation voltage | | V _{CE} (sat) | I _C = -3 A, I _B = -6 mA | _ | _ | -1.5 | V |
| Base-emitter saturation voltage | | V _{BE (sat)} | $I_C = -3 \text{ A}, I_B = -6 \text{ mA}$ | _ | _ | -2.0 | ٧ |
| Switching time | Turn-on time | t _{on} | OUTPUT B_2 D_{B2} | | 0.15 | | |
| | Storage time | t _{stg} | | | 0.80 | ı | μs |
| | Fall time | t _f | | | 0.40 | | |

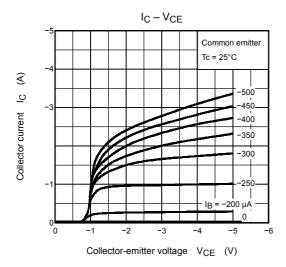
Marking

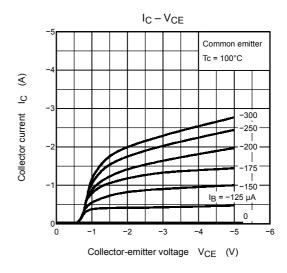


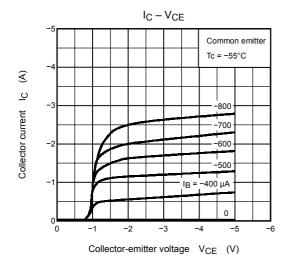
Explanation of Lot No.

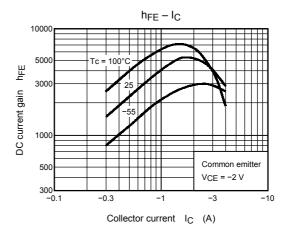


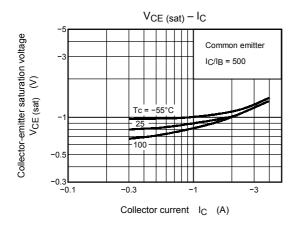
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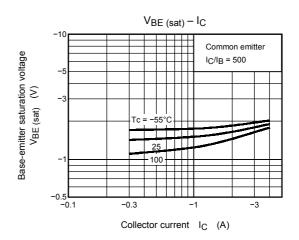




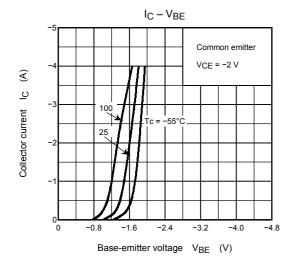


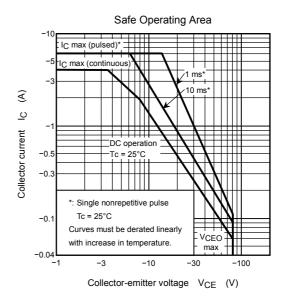


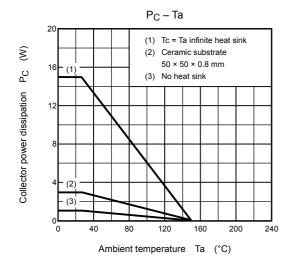




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