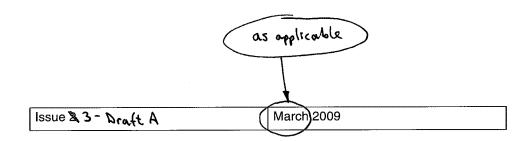


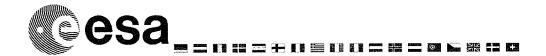
Pages 1 to 15

TRANSISTORS, LOW POWER, NPN

BASED ON TYPE 2N3501

ESCC Detail Specification No. 5201/013







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DOCUMENTATION CHANGE NOTICE

(Refer to https://escies.org for ESCC DCR content)

| DCR N | о. | CHANGE DESCRIPTION |
|-------------|----------|---|
| 4 83 | <u> </u> | Specification up issued to incorporate editorial and technical changes per DCR. |
| | | |
| (tbd | |) |

| Characteristics | Symbols | Maximum Ratings | Unit | Remarks |
|-----------------------------|-------------------|-----------------|------|--|
| Collector-Base Voltage | V _{CBO} | 150 | ٧ | Over entire operating temperature range |
| Collector-Emitter Voltage | V _{CEO} | 150 | ٧ | |
| Emitter-Base Voltage | V _{EBO} | 6 | ٧ | |
| Collector Current | I _C | 300 | mA | |
| Power Dissipation | P _{tot1} | 1 | W | At T _{amb} ≤ +25°C *Note*1) |
| | P _{tot2} | 5 | W | At T _{case} ≤ +25°C |
| Operating Temperature Range | T _{op} | -65 to +200 | °C | Note 🍇 🚹 |
| Storage Temperature Range | T _{stg} | -65 to +200 | °C | Note 🕏 🕹 |
| Soldering Temperature | T _{sol} | +260 | °C | Note 💸 2 |

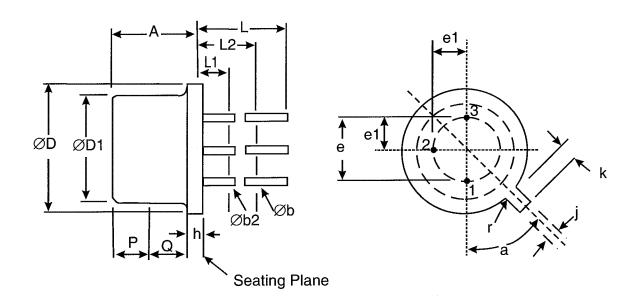
NOTES:

see attached

- 1. For Tamb or Tcase > +25°C, derate-linearly to 0W-at +200°C.
- For Variants with tin-lead plating or hot solder dip lead finish all testing performed at T_{amb} > +125°C shall be carried out in a 100% inert atmosphere.
- 2 Duration 10 seconds maximum at a distance of not less than 1.5mm from the device body and the same lead shall not be resoldered until 3 minutes have elapsed.

1.6 PHYSICAL DIMENSIONS AND TERMINAL IDENTIFICATION

1.6.1 Metal Can Package (TO-5) - 3 lead



| Thermal Resistance, | | | | |
|---------------------|----------------------|-----|------|--|
| Junction-to-Ambient | R _{th(j-a)} | 175 | °C/W | |
| Thermal Resistance, | | | | |
| Junction-to-Case | $R_{th(j-c)}$ | 35 | °C/W | |

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