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# 2SC4264

Silicon NPN Epitaxial

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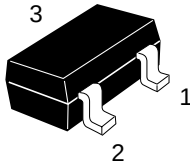
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## Application

VHF / UHF RF amplifier, Local oscillator, Mixer

## Outline

CMPAK



- 1. Emitter
- 2. Base
- 3. Collector

Absolute Maximum Ratings (Ta = 25°C)

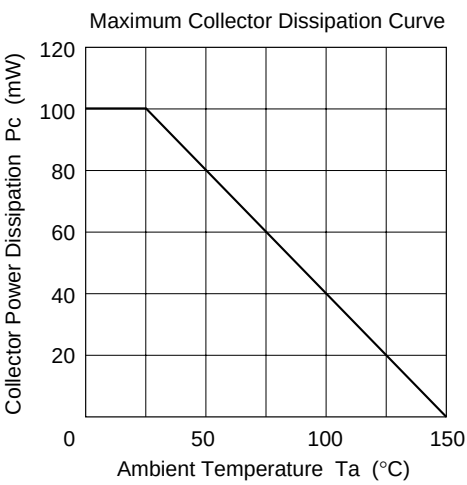
| Item                         | Symbol    | Ratings     | Unit |
|------------------------------|-----------|-------------|------|
| Collector to base voltage    | $V_{CBO}$ | 20          | V    |
| Collector to emitter voltage | $V_{CEO}$ | 11          | V    |
| Emitter to base voltage      | $V_{EBO}$ | 3           | V    |
| Collector current            | $I_C$     | 50          | mA   |
| Collector power dissipation  | $P_C$     | 100         | mW   |
| Junction temperature         | $T_j$     | 150         | °C   |
| Storage temperature          | $T_{stg}$ | −55 to +150 | °C   |

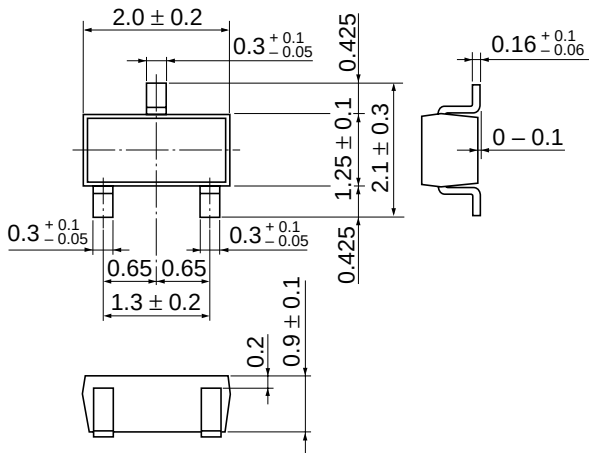
Electrical Characteristics (Ta = 25°C)

| Item                                    | Symbol        | Min | Typ | Max | Unit          | Test conditions                                         |
|-----------------------------------------|---------------|-----|-----|-----|---------------|---------------------------------------------------------|
| Collector to base breakdown voltage     | $V_{(BR)CBO}$ | 20  | —   | —   | V             | $I_C = 10\text{ }\mu\text{A}$ , $I_E = 0$               |
| Collector cutoff current                | $I_{CBO}$     | —   | —   | 0.5 | $\mu\text{A}$ | $V_{CB} = 15\text{ V}$ , $I_E = 0$                      |
|                                         | $I_{CEO}$     | —   | —   | 10  | $\mu\text{A}$ | $V_{CE} = 11\text{ V}$ , $R_{BE} = \infty$              |
| Emitter cutoff current                  | $I_{EBO}$     | —   | —   | 1.0 | $\mu\text{A}$ | $V_{EB} = 3\text{ V}$ , $I_C = 0$                       |
| Collector to emitter saturation voltage | $V_{CE(sat)}$ | —   | —   | 0.7 | V             | $I_C = 10\text{ mA}$ , $I_B = 5\text{ mA}$              |
| DC current transfer ratio               | $h_{FE}$      | 20  | —   | —   |               | $V_{CE} = 10\text{ V}$ , $I_C = 5\text{ mA}$            |
| Collector output capacitance            | $C_{ob}$      | —   | —   | 1.5 | pF            | $V_{CB} = 10\text{ V}$ , $I_E = 0$ , $f = 1\text{ MHz}$ |
| Gain bandwidth product                  | $f_T$         | 1.4 | —   | —   | GHz           | $V_{CE} = 10\text{ V}$ , $I_C = 10\text{ mA}$           |

Note: Marking is “GC”.

See characteristic curves of 2SC2734.





|                          |          |
|--------------------------|----------|
| Hitachi Code             | CMPAK    |
| JEDEC                    | —        |
| EIAJ                     | Conforms |
| Weight (reference value) | 0.006 g  |

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