

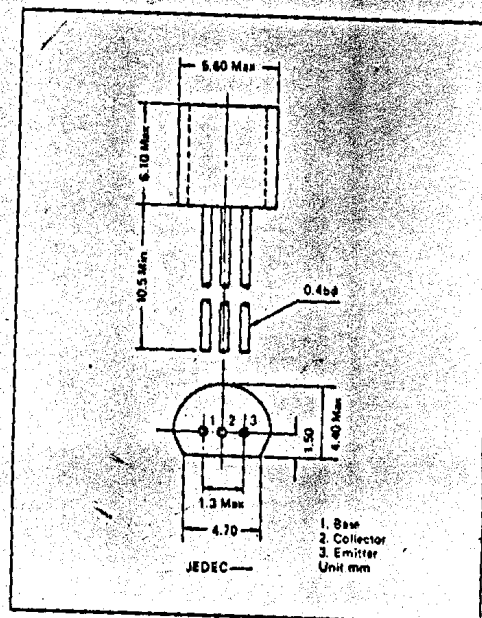
2SC1363, 1364

Silicon NPN APM Transistor

- 汎用増幅, 200mA, 320mW
- Complementary to 2SC1363: 2SA677
2SC1364: 2SA678
- Family 2SC1633, 2SC1634

絶対最大定格 Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

| Characteristics | Symbol | 2SC1363 | 2SC1364 |
|------------------------------|-----------|------------|---------|
| Collector-to-Base Voltage | V_{CB0} | 25V | 50V |
| Collector-to-Emitter Voltage | V_{CE0} | 25V | 50V |
| Emitter-to-Base Voltage | V_{EB0} | 6V | |
| Collector Current | I_C | 200 mA | |
| Base Current | I_B | 50 mA | |
| Collector Power Dissipation | P_G | 320 mW | |
| Junction Temperature | T_J | 120°C | |
| Storage Temperature | T_{stg} | -30~+150°C | |



電気的特性 Electrical Characteristics $T_a = 25^\circ\text{C}$

| Characteristics | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|---|---------------------|--|------|------|------|---------------|
| Collector Cutoff Current | I_{CB0} | $V_{CB} = 25V, I_E = 0$ | | | | |
| Emitter Cutoff Current | I_{EB0} | $V_{EB} = 6V, I_C = 0$ | | | 0.2 | μA |
| DC Current Gain | h_{FE} | $V_{CE} = 3V, I_C = 1\text{ mA}$ | 82 | | 690 | |
| Collector-to-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = 50\text{ mA}, I_B = 10\text{ mA}$ | | 0.10 | 0.30 | V |
| Base-to-Emitter Saturation Voltage | $V_{BE(sat)}$ | | | 0.82 | 1.20 | V |
| Small Signal Current Gain | $ h_{fe} $ | $V_{CE} = 6V, I_E = -2\text{ mA}, f = 100\text{ MHz}$ | | 1.0 | 3.0 | dB |
| Output Capacitance | C_{ob} | $V_{CB} = 6V, I_E = 0, f = 1\text{ MHz}$ | | 4.5 | 7.0 | pF |
| Collector-to-Base Time Constant | $C_c \cdot f_{bb'}$ | $V_{CB} = 6V, I_E = -2\text{ mA}, f = 1.59\text{ MHz}$ | | 300 | 600 | ps |

規格細分 Classifications

| Rank | $h_{FE} (I_C = 1\text{ mA}, V_{CE} = 3V)$ |
|------|---|
| 5 | 82-175 |
| 6 | 129-276 |
| 7 | 204-442 |
| 7 | 326-609 |