

2SC3298 2SC3298A 2SC3298B

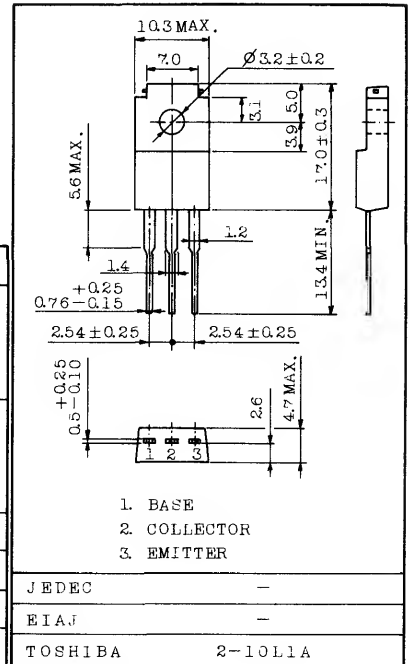
SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

POWER AMPLIFIER APPLICATIONS.
DRIVER STAGE AMPLIFIER APPLICATIONS.

FEATURES:

- High Transition Frequency : $f_T=100\text{MHz}$ (Typ.)
- Complementary to 2SA1306, 2SA1306A, 2SA1306B

Unit in mm



Weight : 2.1g

MAXIMUM RATINGS

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---|-----------|-----------|------------------|
| Collector-Base Voltage | 2SC3298 | 160 | V |
| | 2SC3298A | 180 | |
| | 2SC3298B | 200 | |
| Collector-Emitter Voltage | 2SC3298 | 160 | V |
| | 2SC3298A | 180 | |
| | 2SC3298B | 200 | |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current | I_C | 1.5 | A |
| Base Current | I_B | 0.15 | A |
| Collector Power Dissipation ($T_c=25^\circ\text{C}$) | P_C | 20 | W |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|--------------------|---|------|------|------|---------------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=160\text{V}, I_E=0$ | - | - | 1.0 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=5\text{V}, I_C=0$ | - | - | 1.0 | μA |
| Collector-Emitter Breakdown Voltage | 2SC3298 | $V_{(BR)CEO}$ $I_C=10\text{mA}, I_B=0$ | 160 | - | - | V |
| | 2SC3298A | | 180 | - | - | |
| | 2SC3298B | | 200 | - | - | |
| DC Current Gain | h_{FE} (Note) | $V_{CE}=5\text{V}, I_C=100\text{mA}$ | 70 | - | 240 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=500\text{mA}, I_B=50\text{mA}$ | - | - | 1.5 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=5\text{V}, I_C=500\text{mA}$ | - | - | 1.0 | V |
| Transition Frequency | f_T | $V_{CE}=10\text{V}, I_C=100\text{mA}$ | - | 100 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=10\text{V}, I_C=0, f=1\text{MHz}$ | - | 25 | - | pF |

Note : h_{FE} Classification 0 : 70 ~ 140, Y : 120 ~ 240

2SC3298 · 2SC3298A · 2SC3298B

