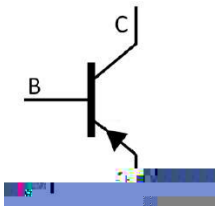


TO-92 PNP Silicon PNP transistor in a TO-92 Plastic Package.

High breakdown voltage, high current, low saturation voltage.

Low frequency power amplifier applications.



PIN1 Base PIN 2 Collector PIN 3 Emitter

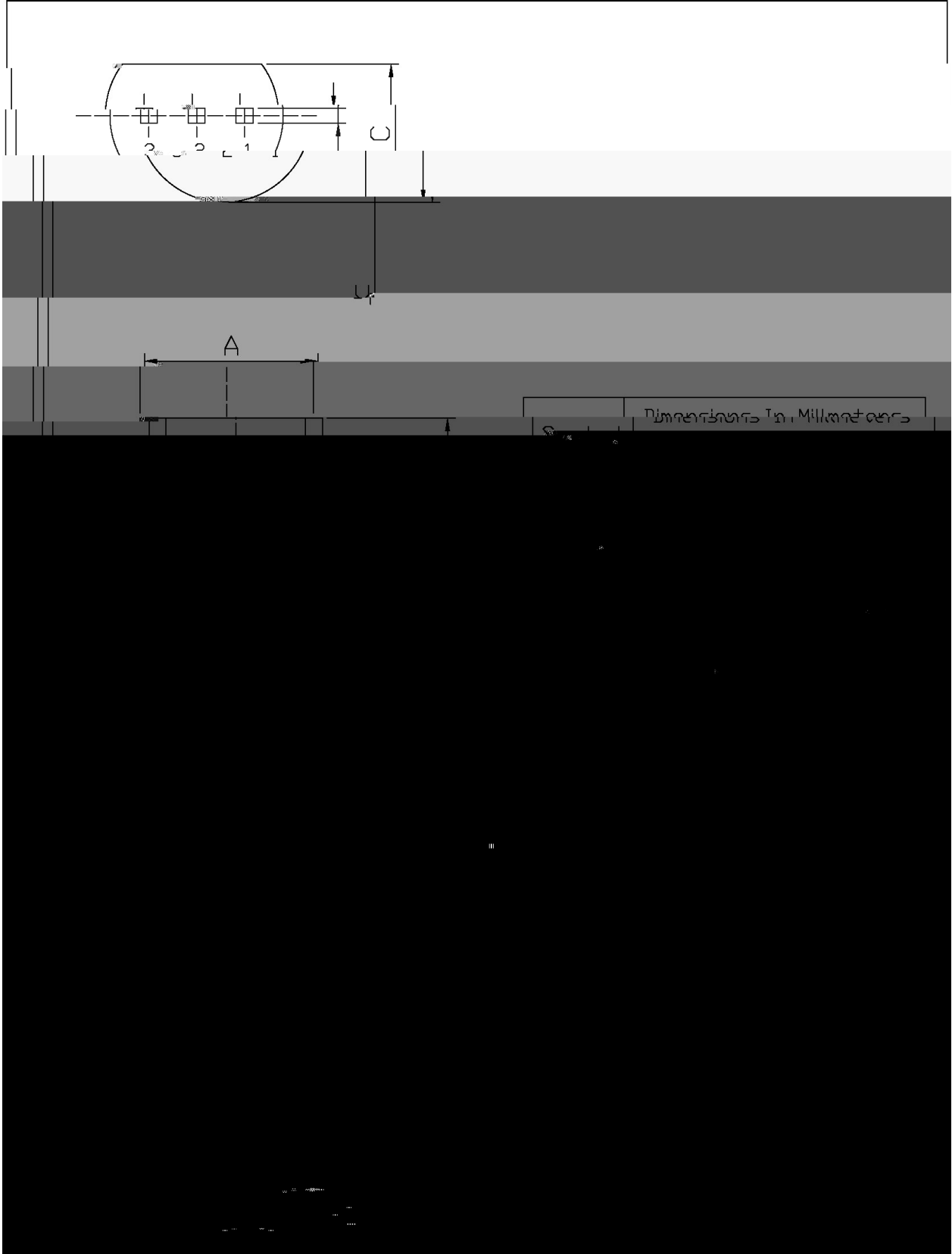
| h_{FE} Classifications Symbol | D | E | F |
|------------------------------------|--------|---------|---------|
| h_{FE} Range | 60~120 | 100~200 | 160~320 |

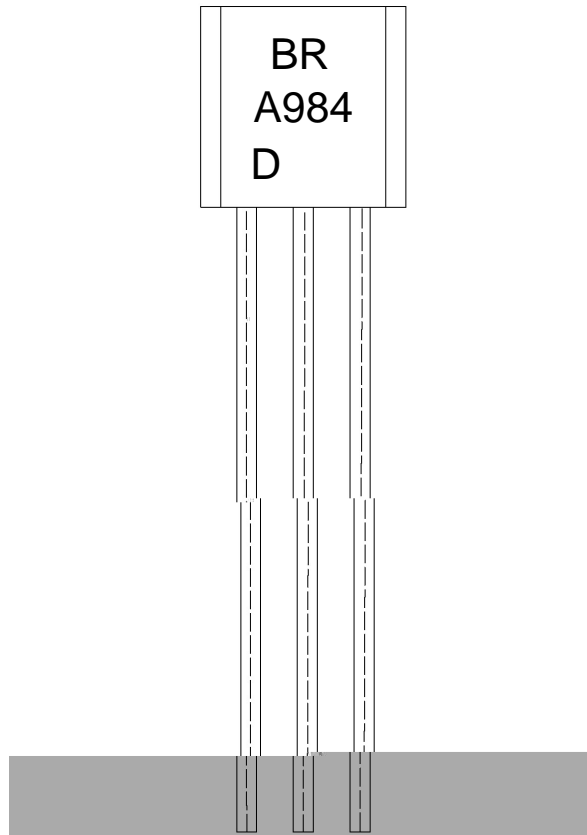
| Parameter | Symbol | | Rating | Unit |
|---------------------------------------|-----------|---------|---------|------|
| Collector to Base Voltage | V_{CBO} | 2SA984 | -60 | V |
| | | 2SA984K | -100 | |
| Collector to Emitter Voltage | V_{CEO} | 2SA984 | -50 | V |
| | | 2SA984K | -80 | |
| Emitter to Base Voltage | V_{EBO} | | -5.0 | V |
| Collector Current - Continuous | I_C | | -500 | mA |
| Collector Current – Continuous(Pulse) | I_{CP} | | -800 | mA |
| Collector Power Dissipation | P_C | | 600 | mW |
| Junction Temperature | T_j | | 150 | |
| Storage Temperature Range | T_{stg} | | -55 150 | |

| Parameter | Symbol | | Test Conditions | Min | Typ | Max | Unit |
|---|---------------|---------|------------------------------|------|-------|------|---------|
| Collector to Base Breakdown Voltage | V_{CBO} | 2SA984 | $I_C=-10\mu A$ $I_E=0$ | -60 | | | V |
| | | 2SA984K | | -100 | | | |
| Collector to Emitter Breakdown Voltage | V_{CEO} | 2SA984 | $I_C=-1.0mA$ $R_{BE}=\infty$ | -50 | | | V |
| | | 2SA984K | | -80 | | | |
| Emitter to Base Breakdown Voltage | V_{EBO} | | $I_E=-10\mu A$ $I_C=0$ | -5.0 | | | V |
| Collector Cut-Off Current | I_{CBO} | | $V_{CB}=-40V$ $I_E=0$ | | | -1.0 | μA |
| Emitter Cutoff Current | I_{EBO} | | $V_{EB}=-4.0V$ $I_C=0$ | | | -1.0 | μA |
| DC Current Gain | $h_{FE(1)}$ | | $V_{CE}=-5.0V$ $I_C=-50mA$ | 60 | | 320 | |
| | $h_{FE(2)}$ | | $V_{CE}=-5.0V$ $I_C=-400mA$ | 35 | | | |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | | $I_C=-400mA$ $I_B=-40mA$ | | -0.25 | -0.6 | V |
| Base to Emitter Saturation Voltage | $V_{BE(sat)}$ | | $I_C=-400mA$ $I_B=-40mA$ | | -0.9 | -1.2 | V |
| Transition Frequency | f_T | | $V_{CE}=-10V$ $I_C=-10mA$ | | 120 | | MHz |
| Collector Output Capacitance | C_{ob} | | $V_{CB}=-10V$ $f=1.0MHz$ | | 9.0 | | pF |

T0-92

Unit: mm





BR:

A 984

D: h_{FE}

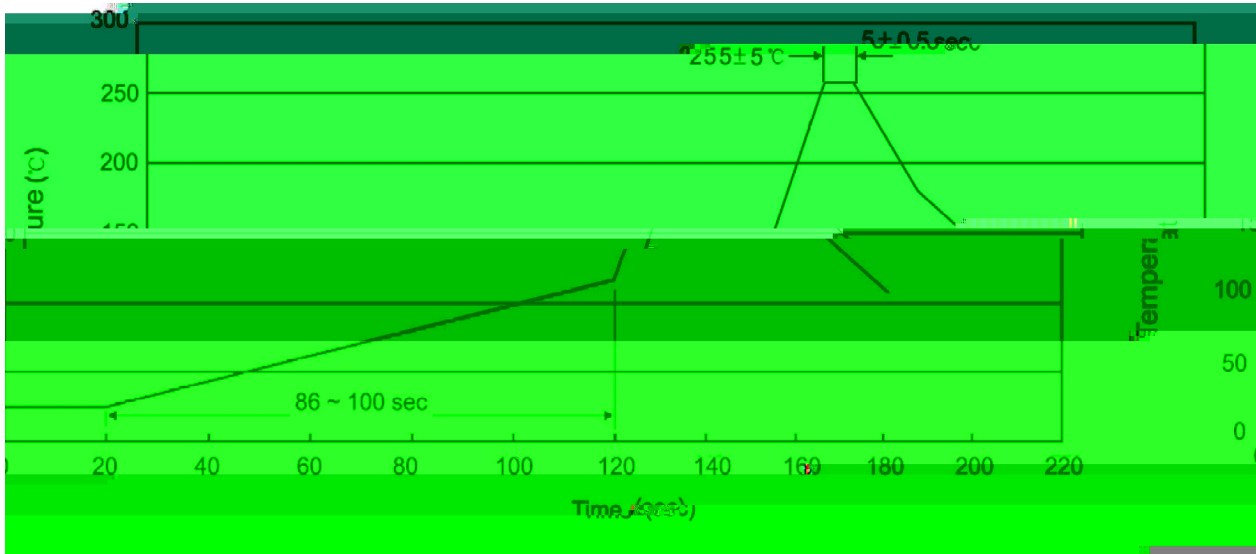
Note:

BR: Company Code.

A984: Product Type.

D: h_{FE} Classifications Symbol

****: Lot No. Code,code change with Lot No.



- | | | | | |
|---|-------|-----|-----------|----------|
| 1 | 25 | 150 | 60 | 90sec; |
| 2 | 255±5 | | 5±0.5sec; | |
| 3 | | | 2 | 10 /sec. |

Note:

1. Preheating: 25~150 , Time: 60~90sec.
2. Peak Temp.: 255±5 , Duration: 5±0.5sec.
3. Cooling Speed: 2~10 /sec.

270±5

10±1 sec.

Temp: 270±5

Time: 10±1 sec

/ BULK

dBW 13q4y-