

Rev.A Dec.-2022

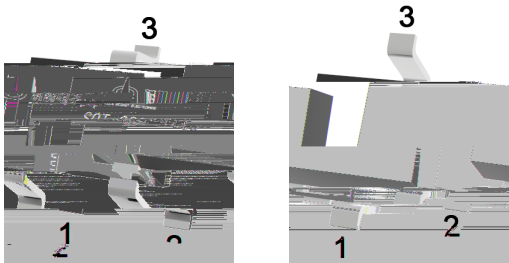
SOT-323

PNP

Silicon PNP Digital transistor in a SOT-323 Plastic Package.

With built-in bias resistors, simplify circuit design, reduce a quantity of parts and manufacturing process, HF Product.

Switching, inverter circuit, interface circuit and driver circuit applications.



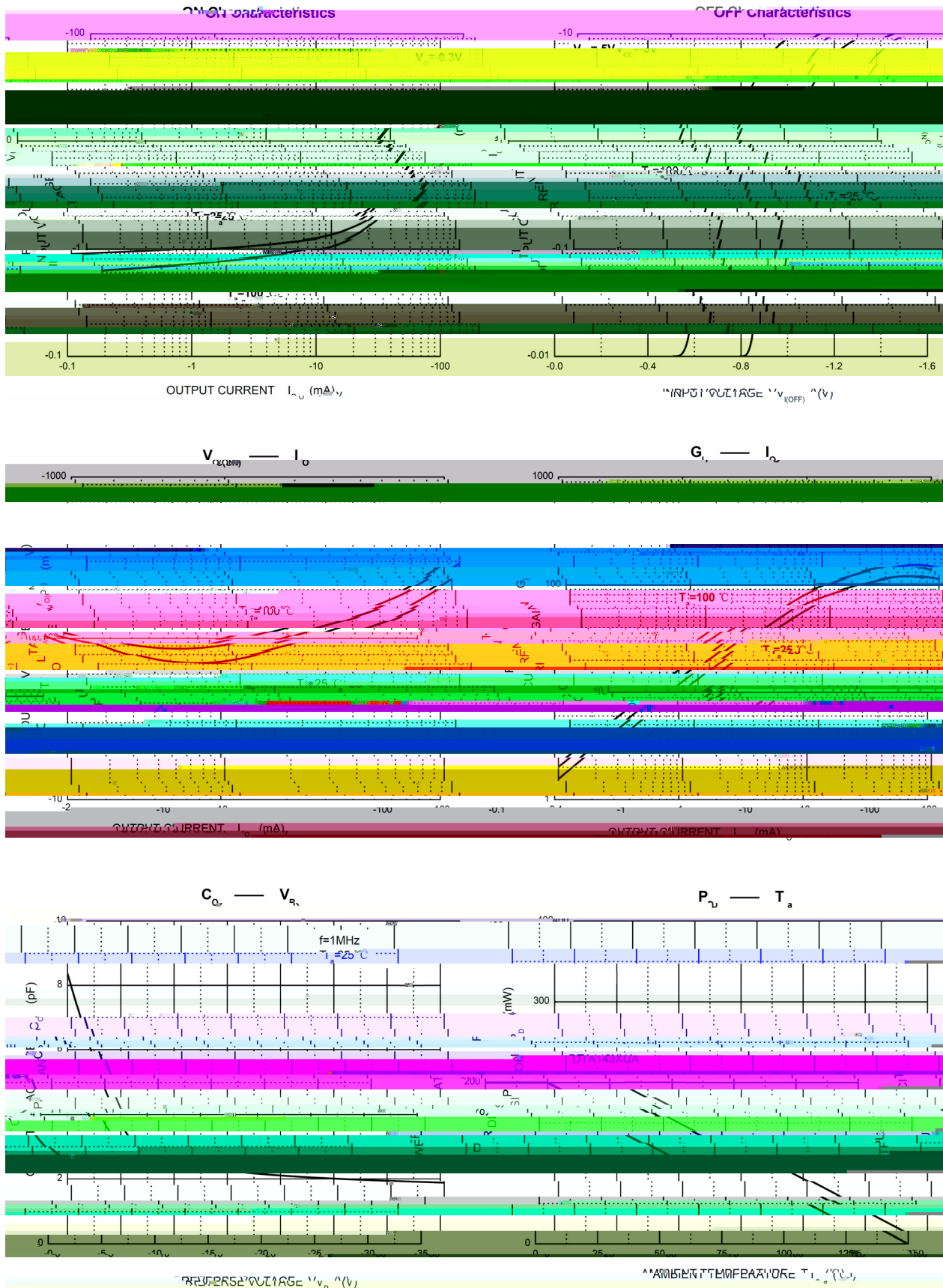
PIN 1 Base

PIN 2 Emitter

PIN 3 Collector

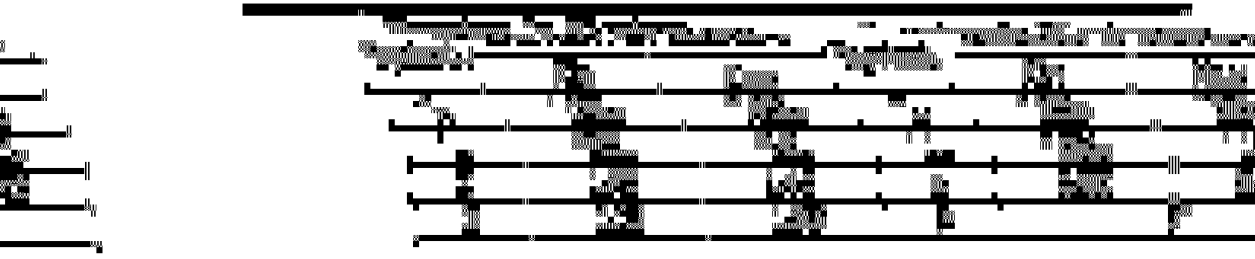
| Parameter                                        | Symbol         | Rating  | Unit |
|--------------------------------------------------|----------------|---------|------|
| Supply Voltage                                   | $V_{CC}$       | -50     | V    |
| Input Voltage                                    | $V_{IN}$       | -20     | V    |
|                                                  |                | 7.0     | V    |
| Output Current                                   | $I_O$          | -100    | mA   |
| Power Dissipation                                | $P_D$          | 200     | mW   |
| Operation Junction and Storage Temperature Range | $T_J, T_{stg}$ | -55 150 |      |

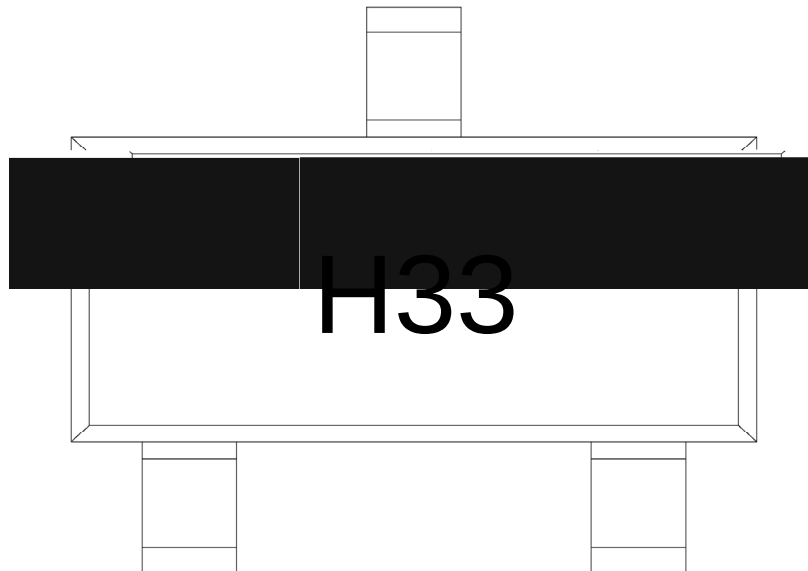
| Parameter            | Symbol       | Test Conditions                       | Min  | Typ  | Max  | Unit |
|----------------------|--------------|---------------------------------------|------|------|------|------|
| Input Voltage        | $V_{I(off)}$ | $V_{CC}=-5.0V$ $I_O=-100$ A           | -0.3 |      |      | V    |
|                      | $V_{I(on)}$  | $V_O=-0.3V$ $I_O=-20mA$               |      |      | -2.5 | V    |
| Output Voltage       | $V_{O(on)}$  | $I_O=-10mA$ $I_I=-0.5mA$              |      | -0.1 | -0.3 | V    |
| Input Current        | $I_I$        | $V_I=-5.0V$                           |      |      | -1.8 | mA   |
| Output current       | $I_{O(off)}$ | $V_{CC}=-50V$ $V_I=0V$                |      |      | -0.5 | A    |
| DC Current Gain      | $G_I$        | $V_O=-5.0V$ $I_O=-10mA$               | 30   |      |      |      |
| Transition Frequency | $f_T$        | $V_O=-10V$ $I_O=-5.0mA$<br>$f=100MHz$ |      | 250  |      | MHz  |
| Resistance1          | $R_1$        |                                       | 3.29 | 4.7  | 6.11 | K    |
| Resistance Ratio     | $R_2/R_1$    |                                       | 1.7  | 2.1  | 2.6  |      |



SUT-323

单位: mm





H

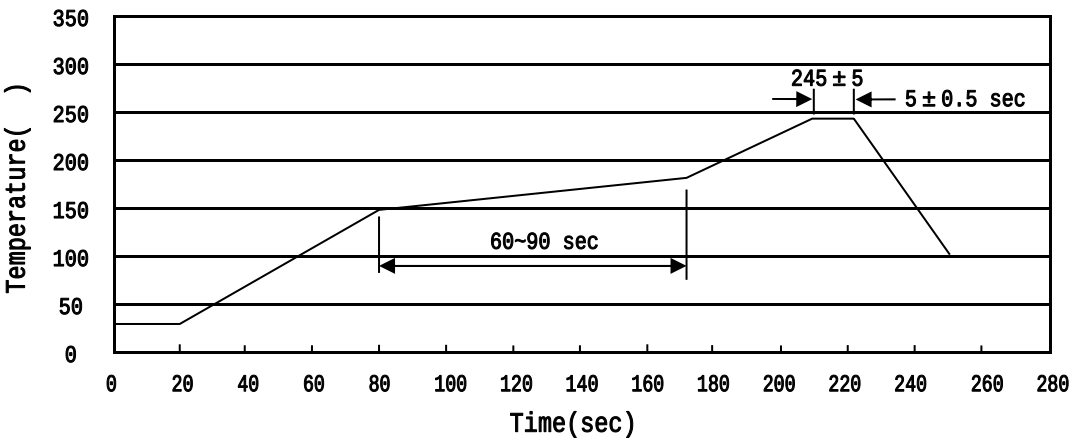
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Note:

H            Company Code

33           Product Type Code

Wh p shrdwxrh Prr iioh i rr IU Uhi orw Vr oghriq j +Pe-Frhh,



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 °C , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 °C , Duration:5±0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 °C /sec.

260±5

10±1 sec.

Temp:260±5

Time:10±1 sec

/ REEL

| Package Type | Units      |                 |                 |                       |                 | Dimension (unit mm <sup>3</sup> ) |             |             |
|--------------|------------|-----------------|-----------------|-----------------------|-----------------|-----------------------------------|-------------|-------------|
|              | Units/Reel | Reels/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Reel                              | Inner Box   | Outer Box   |
| SOT-323      | 3,000      | 10              | 30,000          | 6                     | 180,000         | 7 ×8                              | 180×120×180 | 390×385×205 |