

Rev.A Dec.-2022

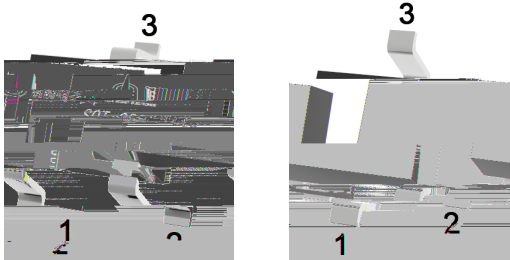
SOT-323

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.



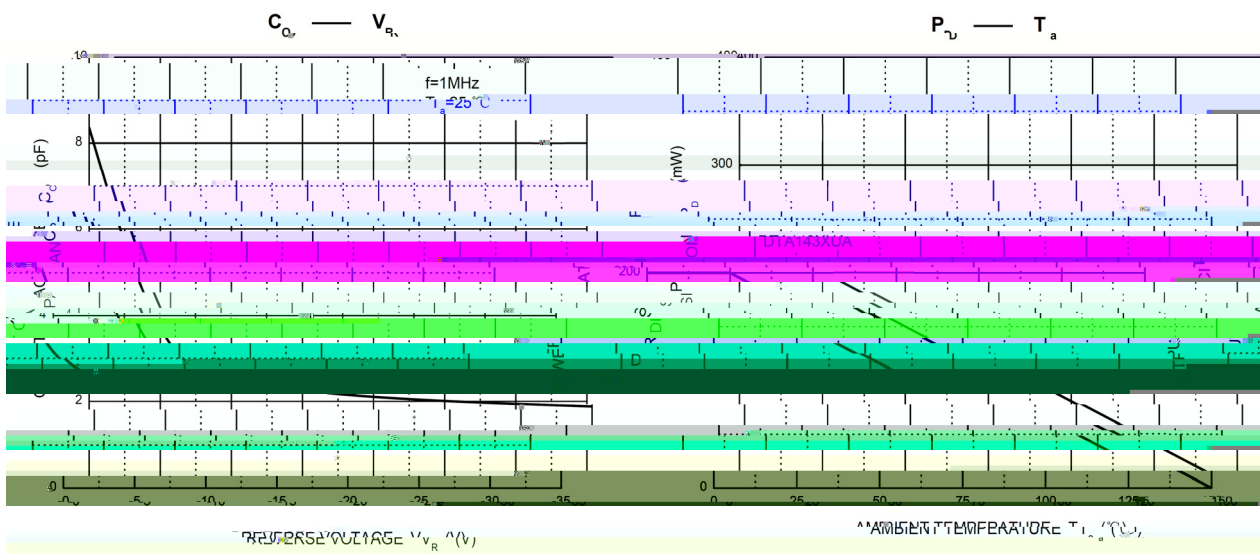
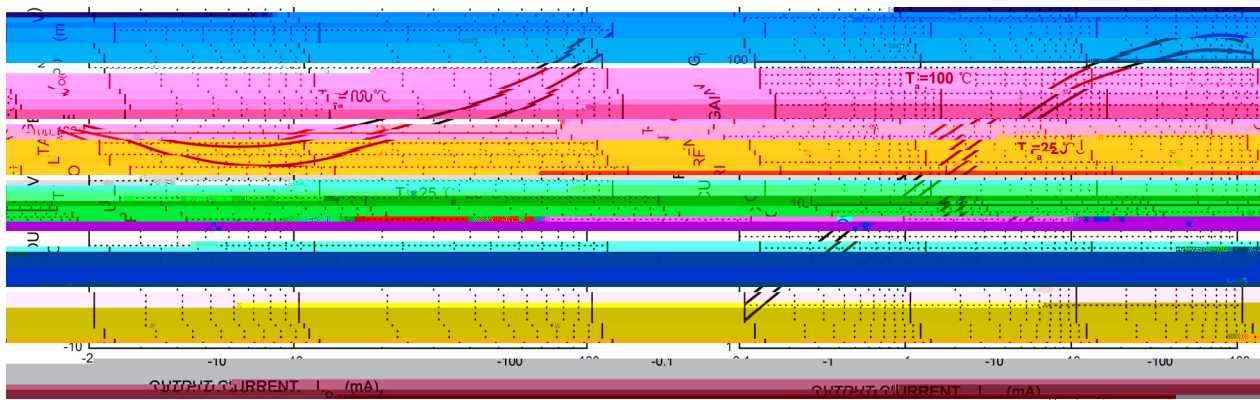
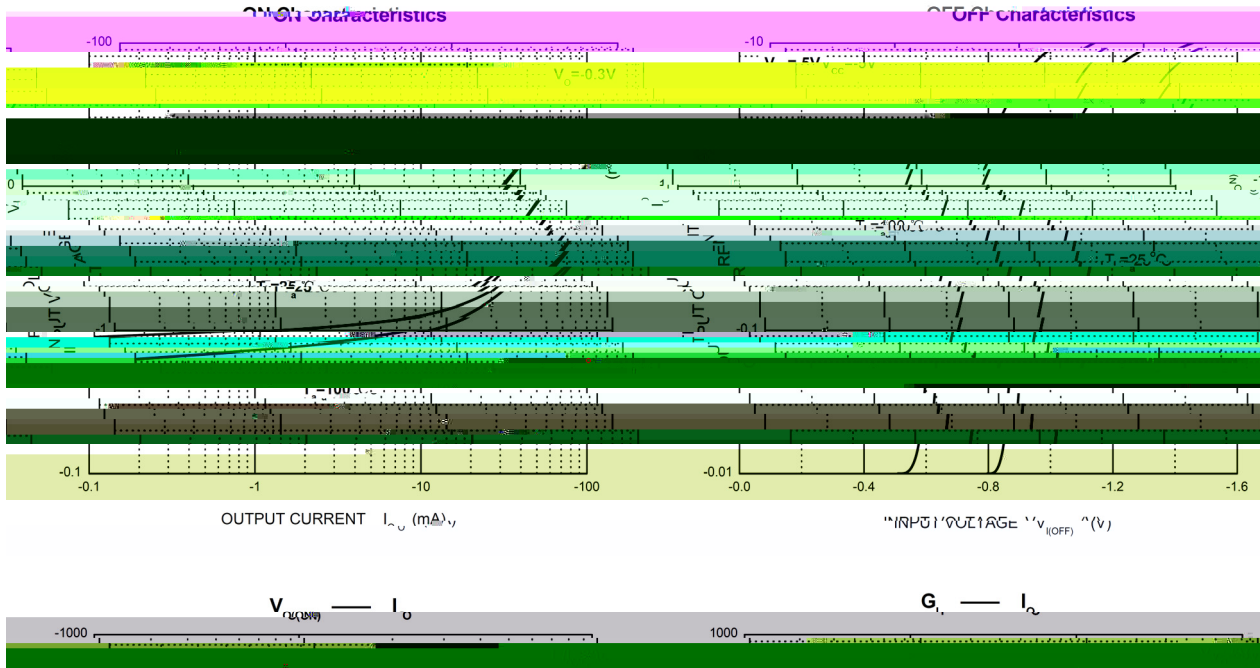
PIN 1 Base

PIN 2 Emitter

PIN 3 Collector

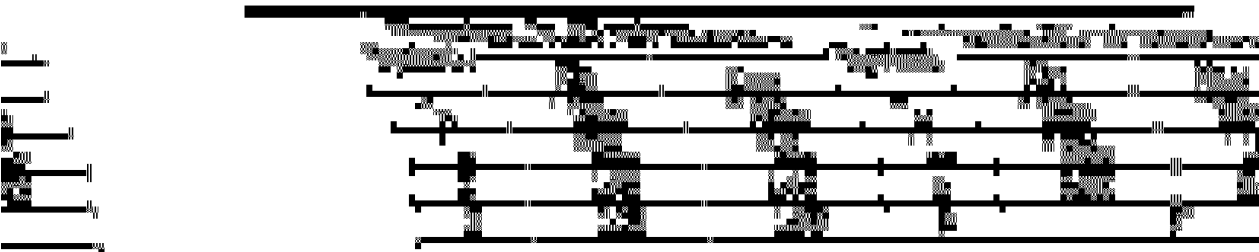
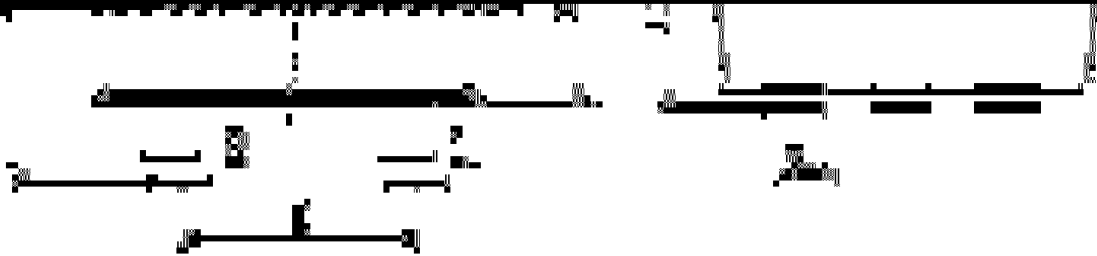
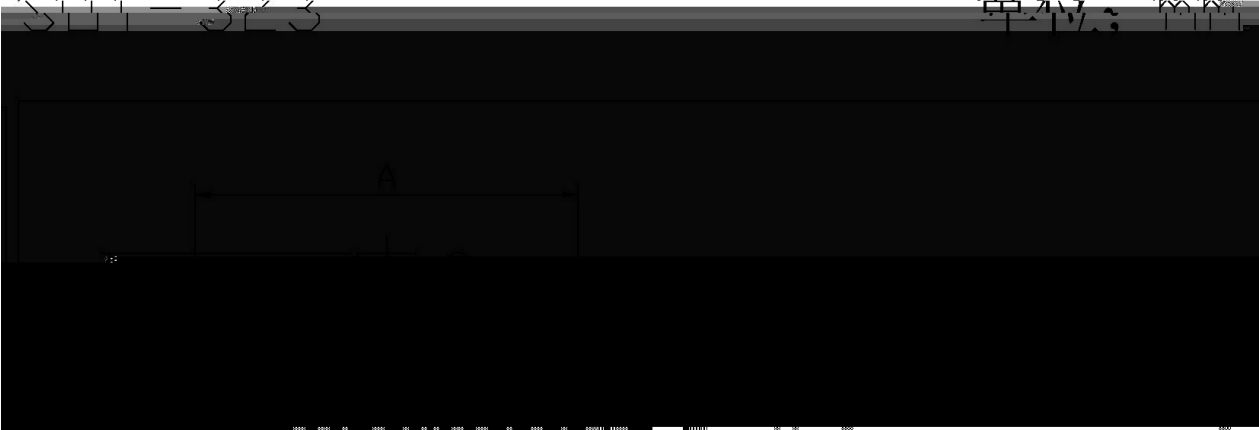
| Parameter | Symbol | Rating | Unit |
|--|----------------|---------|------|
| Supply Voltage | V_{CC} | -50 | V |
| Input Voltage | V_{IN} | -20 | V |
| | | 7.0 | V |
| Output Current | I_O | -100 | mA |
| Power Dissipation | P_D | 200 | mW |
| Operation Junction and Storage Temperature Range | T_J,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

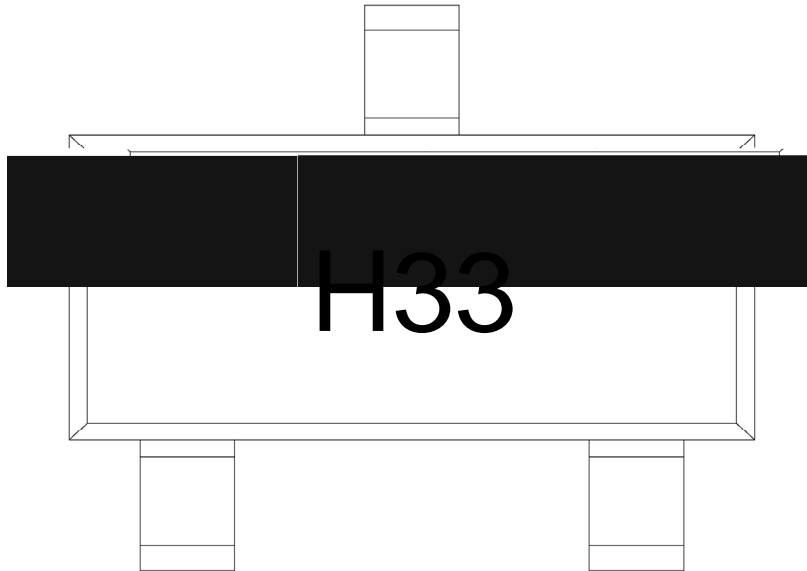
| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|----------------------|--------------|---------------------------------------|------|------|------|------|
| Input Voltage | $V_{I(off)}$ | $V_{CC}=-5.0V$ $I_O=-100$ A | -0.3 | | | V |
| | $V_{I(on)}$ | $V_O=-0.3V$ $I_O=-20mA$ | | | -2.5 | 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 | $V_O=-10V$ $I_O=-5.0mA$ $f=100MHz$ | | 250 | | MHz |
| Resistance1 | R_1 | | 3.29 | 4.7 | 6.11 | K |
| Resistance Ratio | R_2/R_1 | | 1.7 | 2.1 | 2.6 | |



SMT-323

单位: mm





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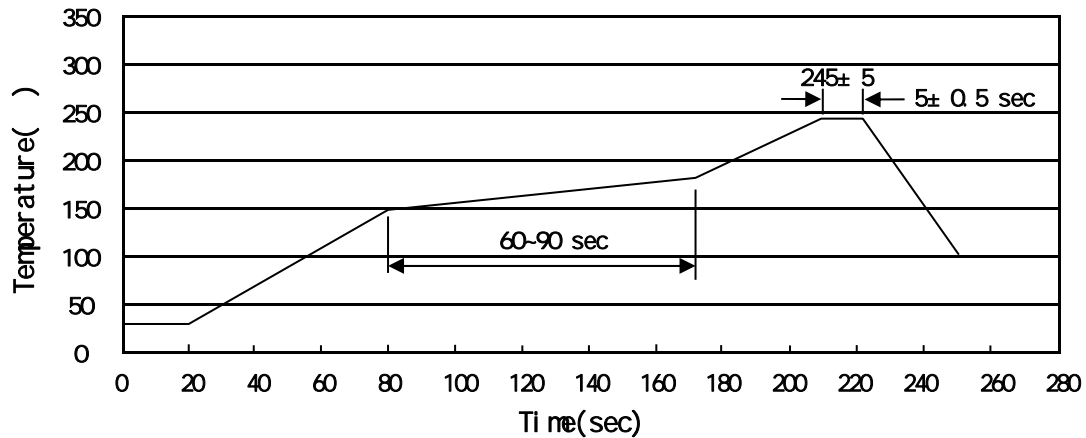
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Note:

H Company Code

33 Product Type Code

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Note:

- | | | | | | |
|---|-------|-----|-----------|--------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | | 5±0.5sec; | | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

260±5

10±1 sec.

Temp:260±5

Time:10±1 sec

/ REEL

| Package Type | Units | | | | | Dimension (unit mm ³) | | |
|--------------|-----------------|----------------------|----------------------|----------------------------|----------------------|-----------------------------------|-------------|-------------|
| | 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 |