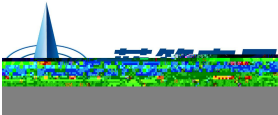


| A | 2022-7-18 | ALL | ALL |  |  |
|---|-----------|-----|-----|--|--|
|   |           |     |     |  |  |
|   |           |     |     |  |  |
|   |           |     |     |  |  |
|   |           |     |     |  |  |
|   |           |     |     |  |  |
|   |           |     |     |  |  |
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|   |           |     |     |  |  |
|   |           |     |     |  |  |



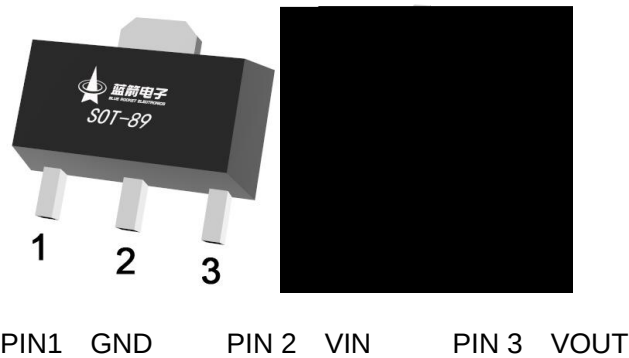
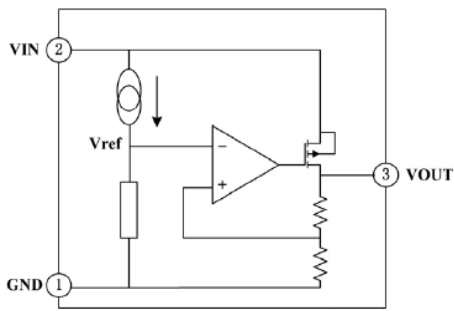
SOT-89

Low dropout linear regulator in a SOT-89 Plastic Package .

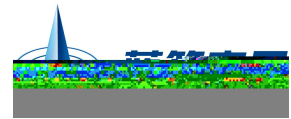
20V                      1.5μA                      2%

Low power consumption,Low voltage drop,Small temperature drift coefficient,High input voltage up to 20V,The static current 1.5μA,The output voltage accuracy:±2%,HF Product.

For use in power equipment,Communication equipment,Audio and video equipment.



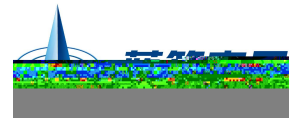
/ See Marking Instructions.



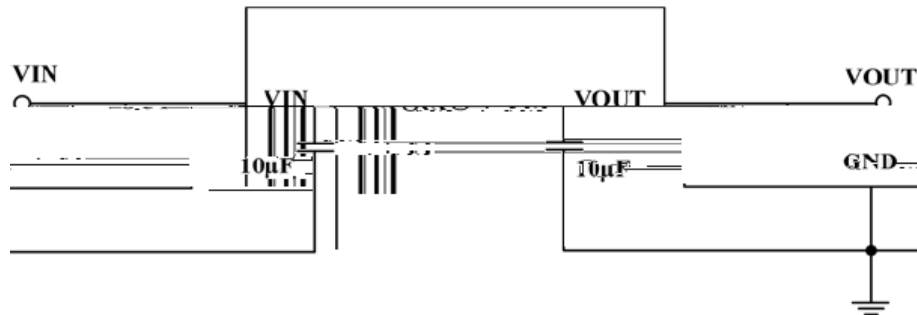
| Parameter           | Symbol          | Rating   | Unit |
|---------------------|-----------------|----------|------|
| Working Voltage     | $V_{IN}$        | -0.3~+20 | V    |
| Thermal Resistance  | $R_{\theta JA}$ | 200      | /W   |
| Power Consumption   | $P_W$           | 500      | mW   |
| Storage Temperature | $T_{STG}$       | -50~+125 |      |
| Working Temperature | $T_A$           | -40~+85  |      |

Notes: If the device operating conditions over the maximum rating of the above-mentioned conditions, may cause permanent damage to the device. The above parameters is only part of the operating conditions the maximum, we do not recommend the device running outside the scope of this specification. If the device to work long hours under the condition of absolute maximum limit, its stability may be affected.

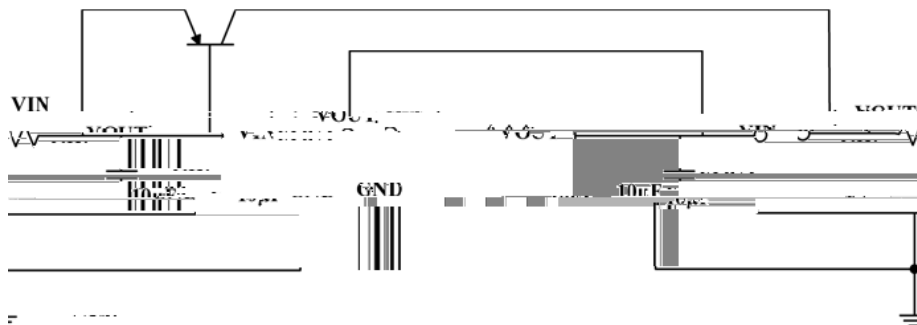
| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-----------|--------|-----------------|-----|-----|-----|------|
|-----------|--------|-----------------|-----|-----|-----|------|



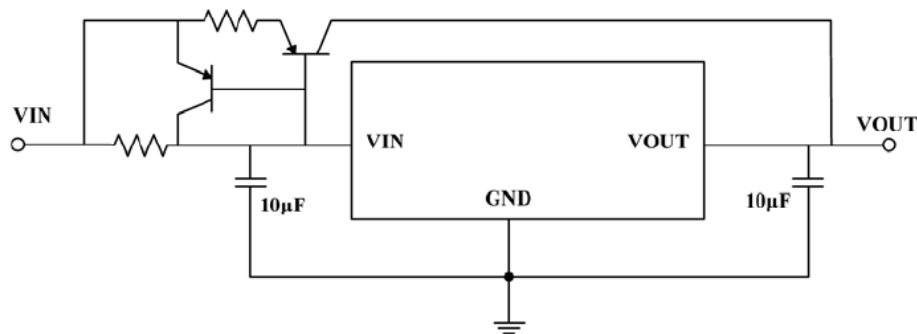
## / Basic Application

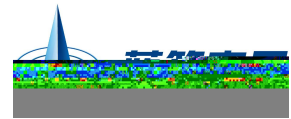


## / High Output Current Voltage Regulator

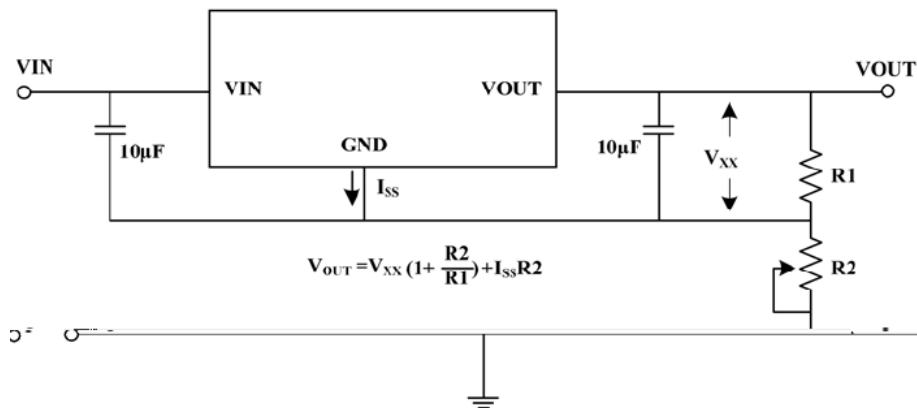


## / Short-Circuit Protection

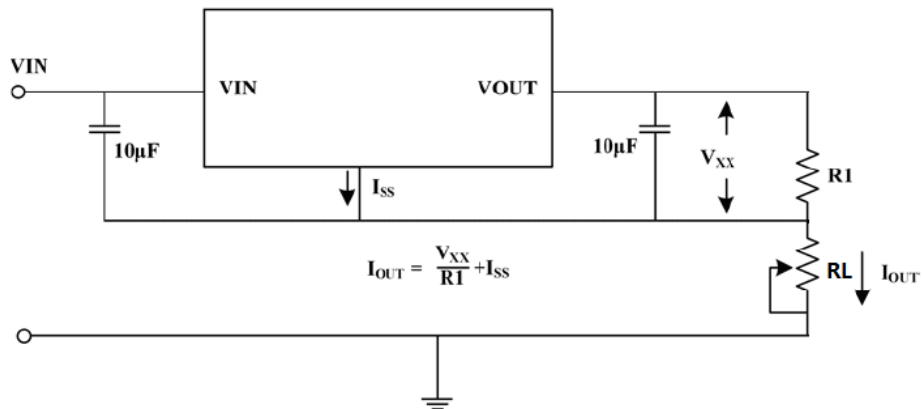




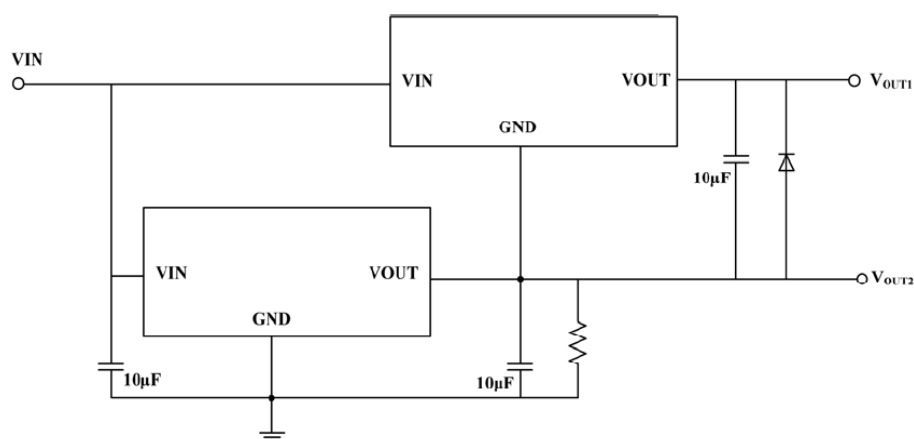
## / Circuit for Increasing Output Voltage

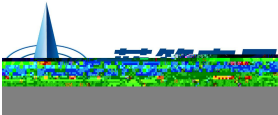


## / Constant Current Regulator



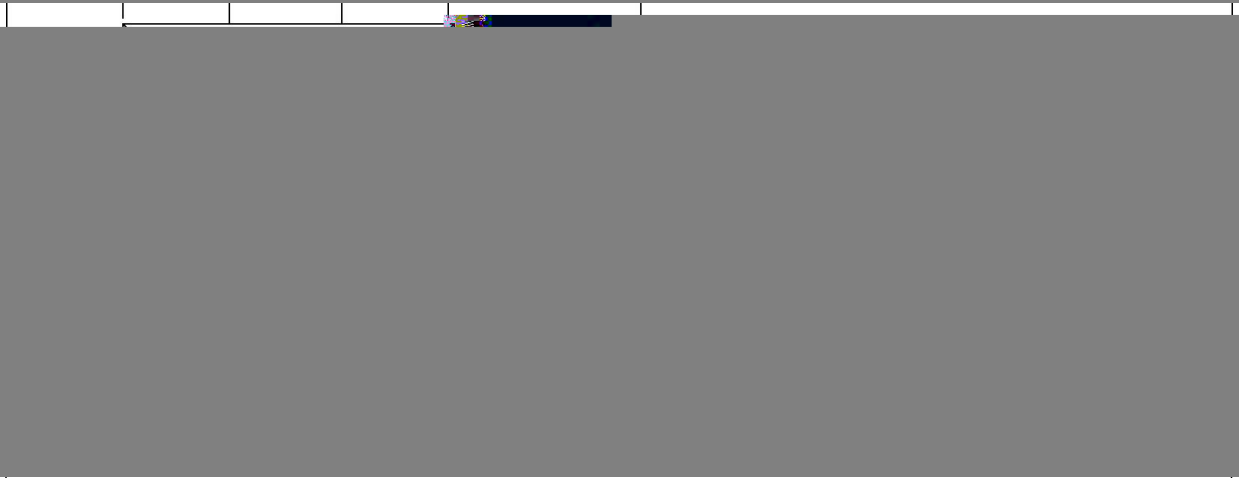
## / Double Output Circuit





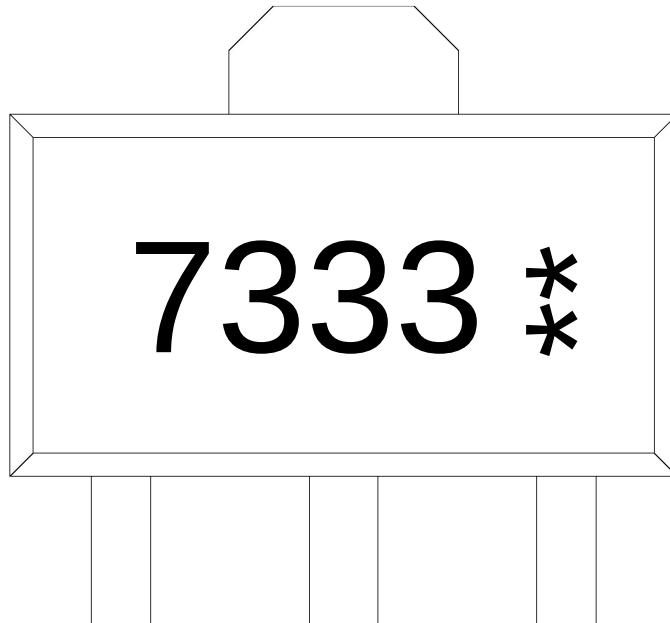
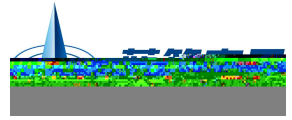
SPT-89

单位: mm



| Symbol | Dimensions In Millimeters |      | Symbol | Dimensions In Millimeters |      |
|--------|---------------------------|------|--------|---------------------------|------|
|        | Min                       | Max  |        | Min                       | Max  |
| A      | 4.4                       | 4.7  | a1     | 0.36                      | 0.56 |
| B      | 2.65                      | 2.65 | a      | 0.36                      | 0.56 |





说明：

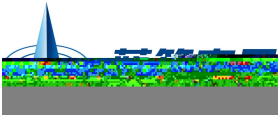
7333： 为型号代码

\*\*： 为生产批号代码，随生产批号变化

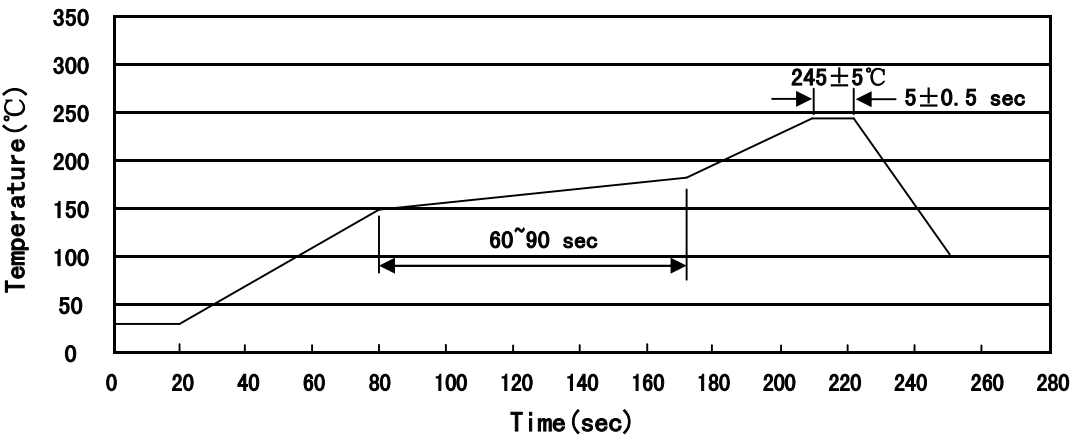
Note:

7333: Product Type

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



Temperature Profile for IR Reflow Soldering(Pb-Free)



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°C/sec. |           | 3. Cooling Speed: 2~10°C/sec.            |

260±5°C      10±1 sec.      Temp.:260±5      Time:10±1 sec

/ REEL

| Package Type | Units              |                         |                        |                              |                        | Dimension (unit mm³) |             |             |
|--------------|--------------------|-------------------------|------------------------|------------------------------|------------------------|----------------------|-------------|-------------|
|              | Units/Reel<br>只/卷盘 | Reels/Inner Box<br>卷盘/盒 | Units/Inner Box<br>只/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>只/箱 | Reel                 | Inner Box   | Outer Box   |
| SOT-89       | 1,000              | 7                       | 7,000                  | 6                            | 42,000                 | 7" ×12               | 180×120×180 | 390×385×205 |