

5 é / Descriptions

9 5: .> // x 9 ² ... ~ož Voltage Regulator in a SOT-89 Plastic Package.

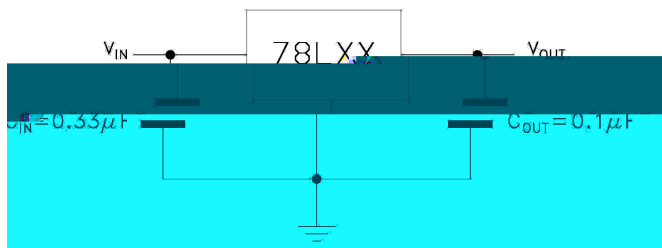
α a / Features

€ l 9 ² ... ~ k ý ß v ä S ' Ä — ½ ' y ? è ' ò k —) í D } ož  
3-Terminal regulators, output current up to 100 mA, internal thermal overload protection and short-circuit limiting, HF Product.

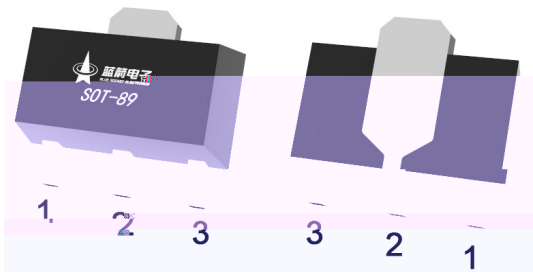
Đ ÷ / Applications

9 ² ... ~ož  
Voltage Regulator.

Ã W ] Ô · / € Đ Ô · / Equivalent Circuit or Application Circuit



• Ũ - æ / Pinning



PIN1 y OUT PIN 2 y GND PIN 3 y IN

, M V / Marking

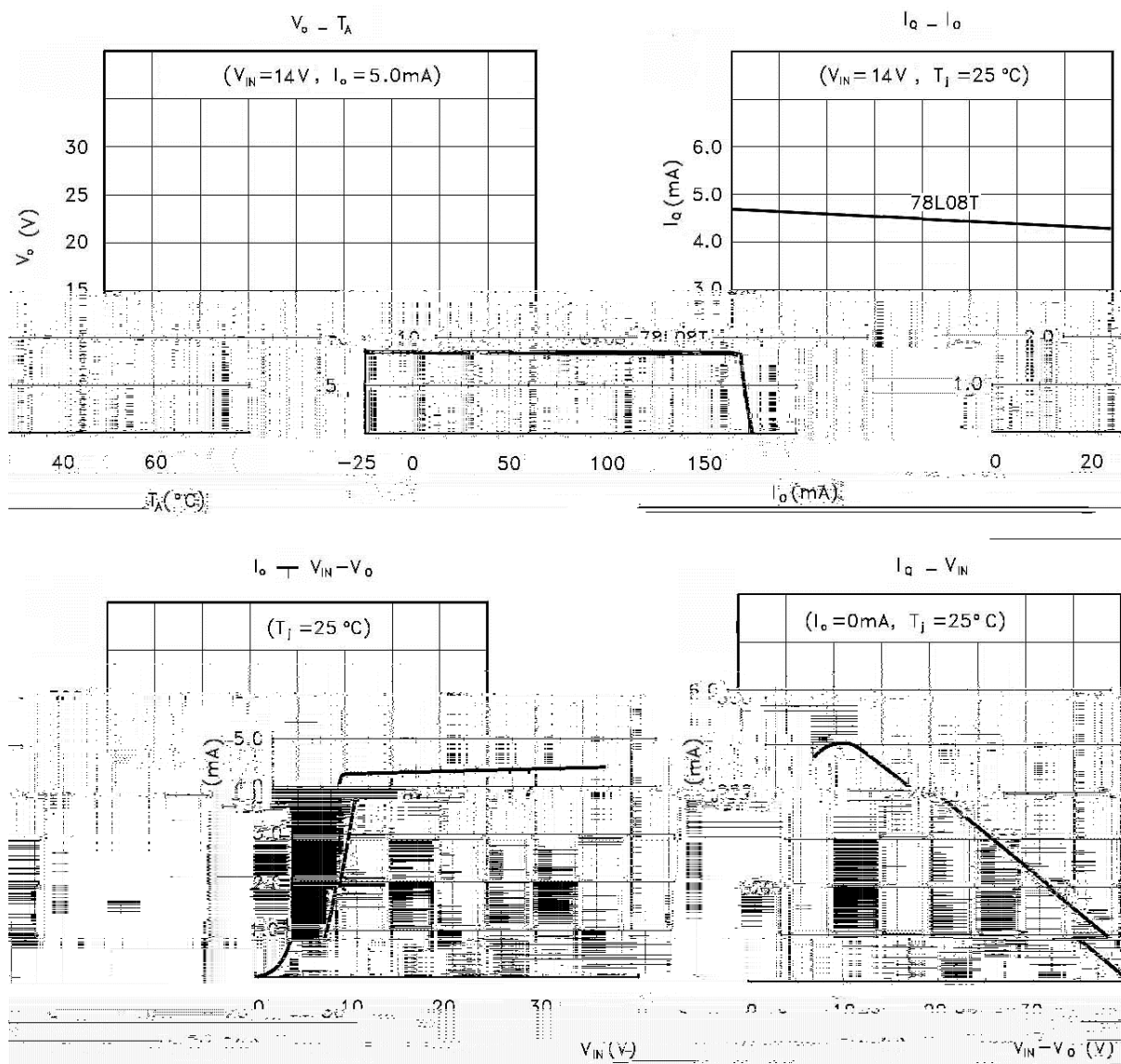
|         |        |
|---------|--------|
| Marking | HL08 * |
|---------|--------|

| @ f<br>Parameter                       | ... Z<br>Symbol  | f ><br>Rating | % y<br>Unit |
|----------------------------------------|------------------|---------------|-------------|
| Input voltage                          | V <sub>I</sub>   | 30            | V           |
| Output current                         | I <sub>O</sub>   | 100           | mA          |
| Operating virtual Junction temperature | T <sub>J</sub>   | 0 125         |             |
| Power Dissipation                      | P <sub>D</sub>   | 500           | mW          |
| Storage temperature range              | T <sub>stg</sub> | -65 150       |             |

| @ f<br>Parameter  | ... Z<br>Symbol | y j Ú ^<br>Test Conditions                                  | Â 4 ><br>Min | Á ° ><br>Typ | Â Ý ><br>Max | % y<br>Unit |
|-------------------|-----------------|-------------------------------------------------------------|--------------|--------------|--------------|-------------|
| Output voltage    | V <sub>O</sub>  | I <sub>O</sub> =40mA T <sub>J</sub> =25                     | 7.7          | 8.0          | 8.3          | V           |
|                   |                 | I <sub>O</sub> =1mA to 40mA<br>V <sub>I</sub> =10.5V to 23V | 7.6          | 8.0          | 8.4          | V           |
|                   |                 | I <sub>O</sub> =1mA to 70mA V <sub>I</sub> =14V             | 7.6          | 8.0          | 8.4          | V           |
| Input regulation  | V <sub>O</sub>  | V <sub>I</sub> =10.5V to 23V T <sub>J</sub> =25             |              | 42           | 175          | mV          |
|                   |                 | V <sub>I</sub> =11V to 23V T <sub>J</sub> =25               |              | 36           | 125          | mV          |
| Ripple rejection  | RR              | V <sub>I</sub> =13V to 23V f=120Hz<br>T <sub>J</sub> =25    | 37           | 46           |              | dB          |
| Output regulation | V <sub>O</sub>  | I <sub>O</sub> =1mA to 100mA<br>T <sub>J</sub> =25          |              | 18           | 80           | mV          |
|                   |                 | I <sub>O</sub> =1mA to 40mA<br>T <sub>J</sub> =25           |              | 10           | 40           | mV          |

18.42

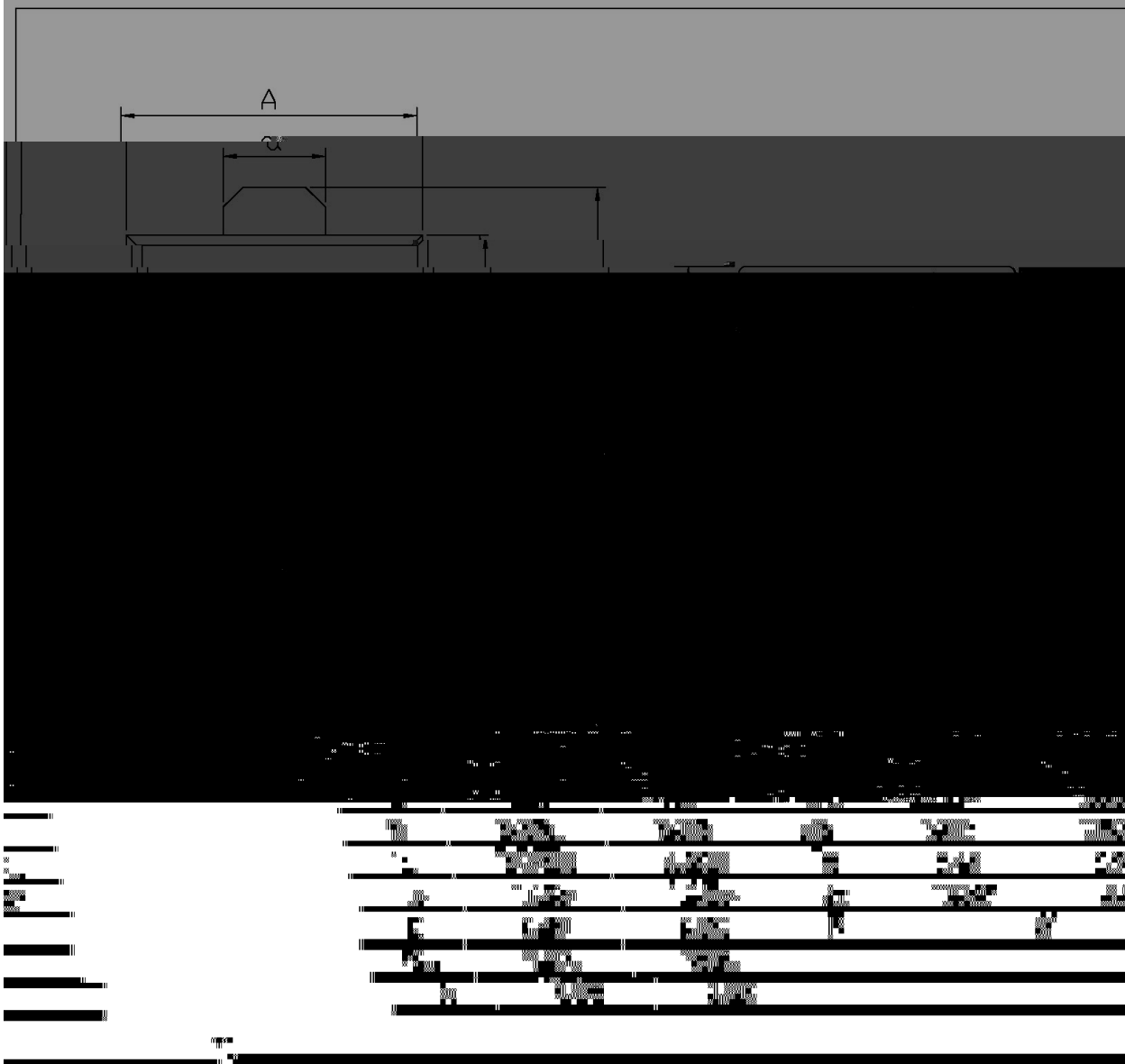
Electrical Characteristic Curve



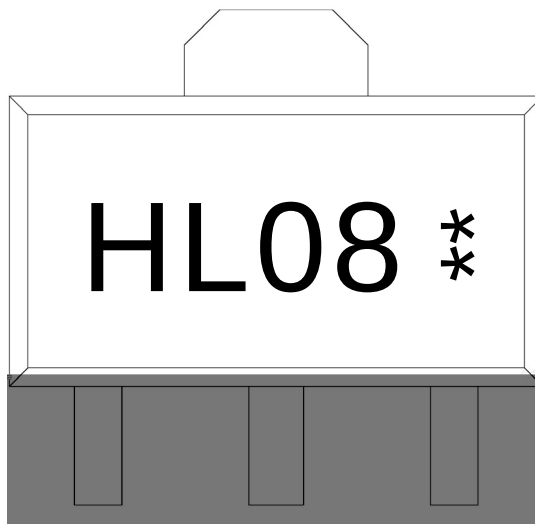
Ø □ = ) ⌀ / Package Dimensions

SOT-89

单位: mm



, M y f / Marking Instructions



<sup>a</sup> ¢ y

H y , [ W A

L08 y ° Z W A

y Ÿ D Z W A k š Ÿ D Z J

Note:

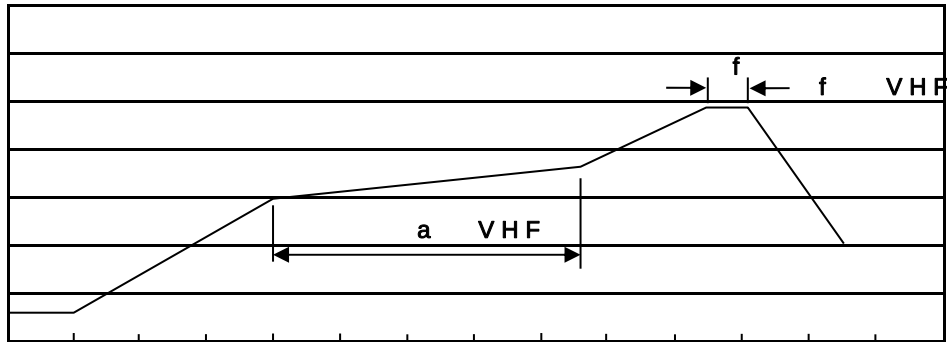
H: Company Code

L08: Product Type

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

šWD t...•Žč (x/ ) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

a ç y

10• Ä ½ “† 150 ½180 - k ž • 60 ½90sec;

20• Q > “† 245 r5 - k ž • 4 Ò 5 r0.5sec;

30•D N ò i Ò 0 ,† 2 ½10 - /sec.

Note:

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

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“† y 260 r5 -

ž • y 10 r1 sec.

Temp.:260±5

Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

| Package Type<br>7>û ~ E | Units ;>û H      |                          |                       |                                |                        | Dimension ;>û p . (unit Åmm³) |             |             |
|-------------------------|------------------|--------------------------|-----------------------|--------------------------------|------------------------|-------------------------------|-------------|-------------|
|                         | Units/Reel<br>/- | Reels/Inner Box<br>-- /- | Units/Inner Box<br>/- | Inner Boxes/Outer Box<br>- /1ç | Units/Outer Box<br>/1ç | Reel                          | Inner Box   | Outer Boxç  |
| SOT-89                  | 1,000            | 7                        | 7,000                 | 6                              | 42,000                 | 7 s ×12                       | 180×120×180 | 390×385×205 |

„Đ y f / Notices