

## / Descriptions

SOT-89

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

## / Features

24V

1.5 $\mu$ A

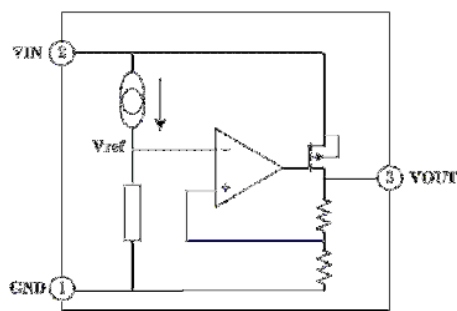
$\pm 2\%$

Low power consumption,Low voltage drop,Small temperature drift coefficient,High input voltage up to 24V,The static current 1.5 $\mu$ A,The output voltage accuracy: $\pm 2\%$ ,HF Product.

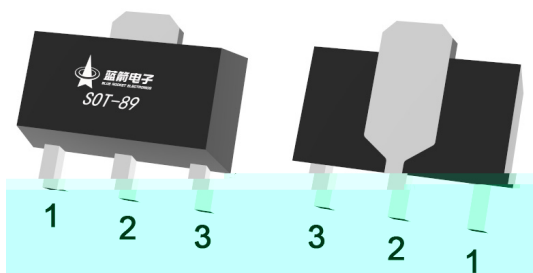
## / Applications

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

## / Equivalent Circuit



## / Pinning



PIN1 GND PIN 2 VIN PIN 3 VOUT

## / Marking

See Marking Instructions.

# BRCO7550MT

Rev.B Jul.-2024

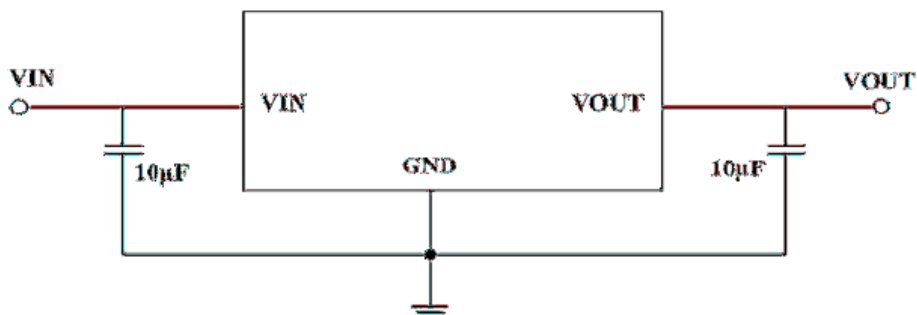


DATA SHEET

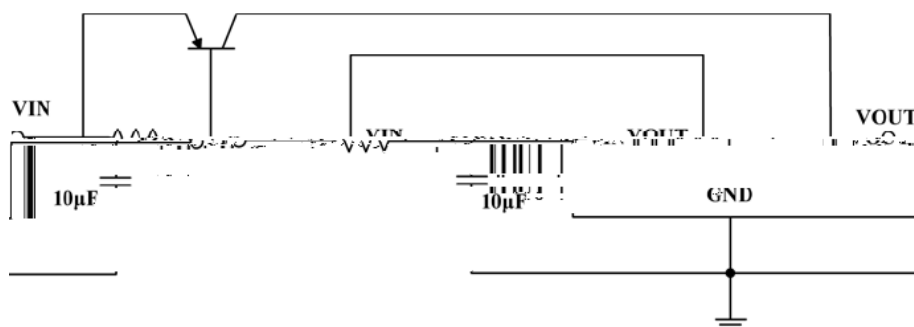
| Parameter          | Symbol          | Rating   | Unit |
|--------------------|-----------------|----------|------|
| Working Voltage    | $V_{IN}$        | -0.3~+24 | V    |
| Thermal Resistance | $R_{\theta JA}$ | 200      | /W   |
| Power Consumption  | $P_D$           |          |      |

## / Typical Application Circuit

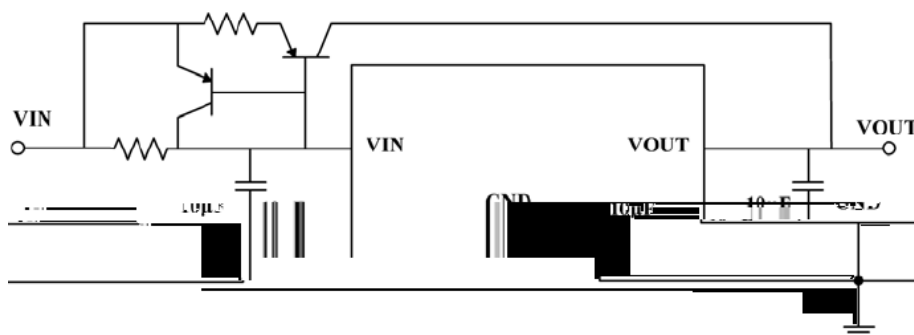
### / Basic Application



### / High Output Current Voltage Regulator

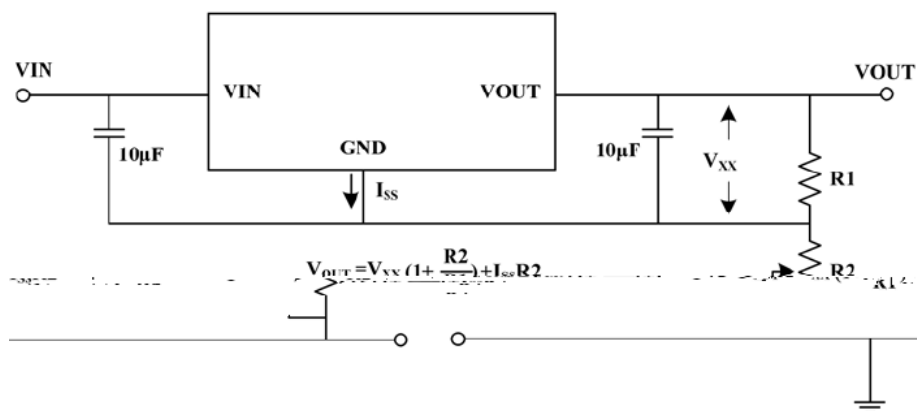


### / Short-Circuit Protection

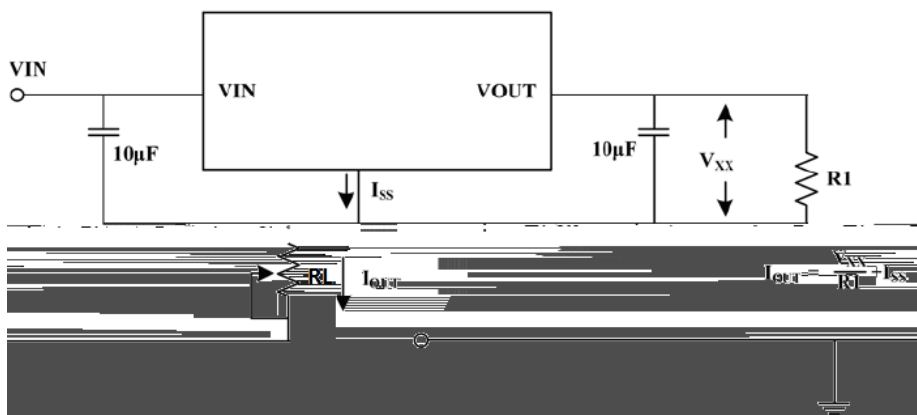


## / Typical Application Circuit

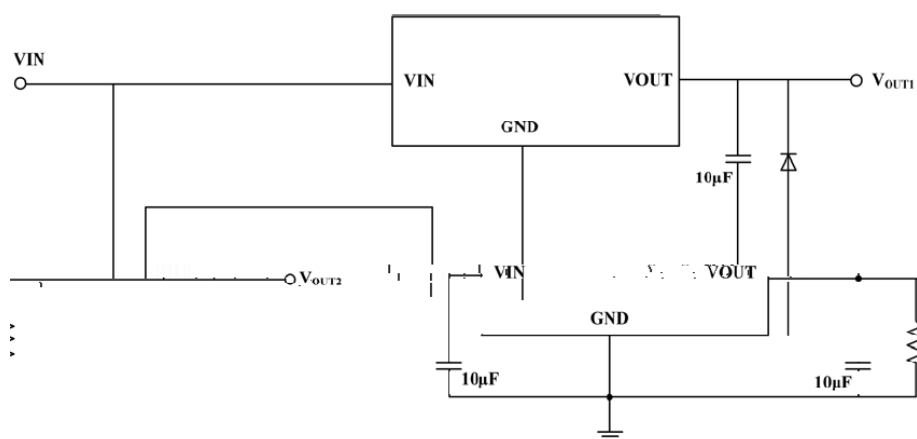
/ Circuit for Increasing Output Voltage



/ Constant Current Regulator

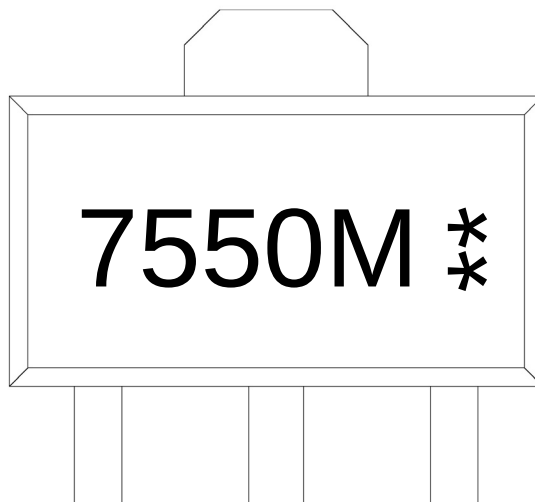


/ Double Output Circuit





**/ Marking Instructions**



7550M

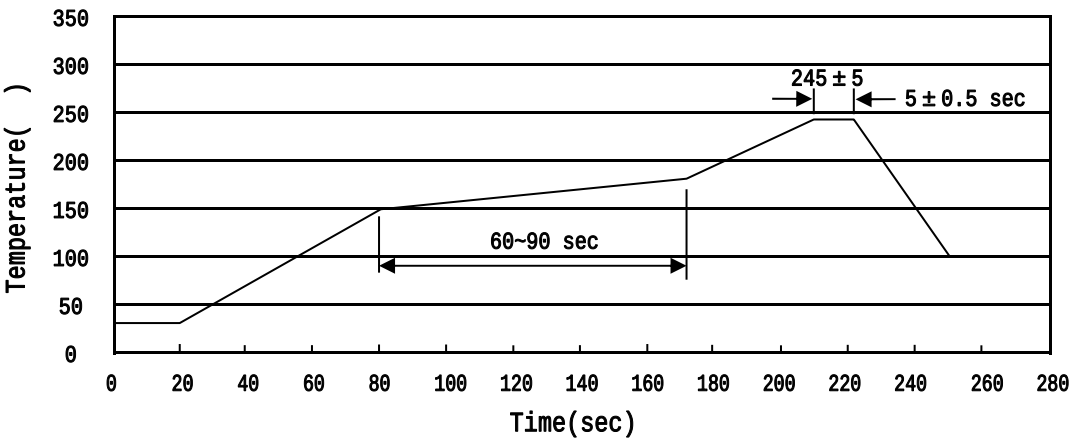
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Note:

7550M: Product Type Code

\*\*: 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 , 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.

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ REEL

| Package Type | Units |    |        |   |        | Dimension (unit mm <sup>3</sup> ) |             |             |
|--------------|-------|----|--------|---|--------|-----------------------------------|-------------|-------------|
|              |       |    |        |   |        |                                   |             |             |
| SOT-89       | 1,000 | 10 | 10,000 | 4 | 40,000 | 7" ×12                            | 210×205×205 | 445×435×230 |

/ Notices