



TX75XXM series

150mA Low Power LDO

Features

- Low power consumption
- Low voltage drop
- Low temperature coefficient
- High input voltage (up to 15V)
- Output voltage accuracy: tolerance $\pm 2\%$
- TO92, SOT89, SOT23-3 and SOT23 package

Applications

- Battery-powered equipment
- Communication equipment
- Audio/Video equipment

General Description

The TX75XXM series is a set of three-terminal low power high voltage regulators implemented in CMOS technology. They allow input voltages as high as 15V. They are available with several fixed output voltages ranging from 2.1V to 6.0V. CMOS

technology ensures low voltage drop and low quiescent current. Although designed primarily as fixed voltage regulators, these devices can be used with external components to obtain variable voltages and currents.

Selection Table

| Part No. | Output Voltage | Package | Marking |
|-----------|----------------|-----------------------------------|--|
| TX7521Mxx | 2.1V | TO92 SOT89 SOT23-3 SOT23 | 75XXA-1(for TO92) 75XX-1(for SOT89) HTXX(for SOT23-3) HTXX(for SOT23) |
| TX7523Mxx | 2.3V | | |
| TX7525Mxx | 2.5V | | |
| TX7527Mxx | 2.7V | | |
| TX7530Mxx | 3.0V | | |
| TX7533Mxx | 3.3V | | |
| TX7536Mxx | 3.6V | | |
| TX7540Mxx | 4.0V | | |
| TX7544Mxx | 4.4V | | |
| TX7545Mxx | 4.5V | | |
| TX7550Mxx | 5.0V | | |

Note: "XX" stands for output voltages.

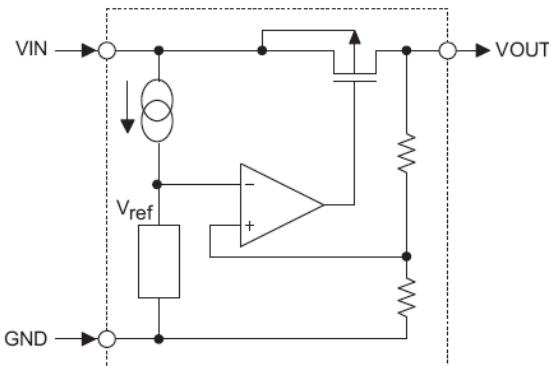
Order Information

TX75①②③④⑤

| Designator | Symbol | Description |
|------------|---------|--------------------------|
| ① ② | Integer | Output Voltage(2.1~5.0V) |
| ③ | M | Standard |
| ④ | T | Package:TO-92 |
| | P | Package:SOT89 |
| | M | Package:SOT23-3 |
| | N | Package:SOT23 |
| ⑤ | R | RoHS / Pb Free |
| | G | Halogen Free |

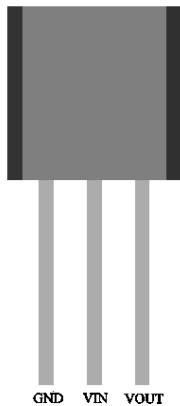


Block Diagram

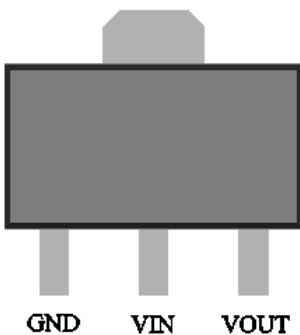


Pin Assignment

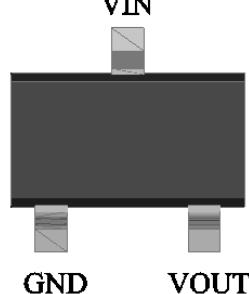
TO92 (Front view)



SOT89 (Top view)



SOT23-3 and SOT23
(Top view)



Absolute Maximum Ratings

Supply Voltage -0.3V to 18V

Storage Temperature -50°C to 125°C

Operating Temperature -40°C to 85°C

Note: These are stress ratings only. Stresses exceeding the range specified under "Absolute Maximum Ratings" may cause substantial damage to the device. Functional operation of this device at other conditions beyond those listed in the specification is not implied and prolonged exposure to extreme conditions may affect device reliability.

Thermal Information

| Symbol | Parameter | Package | Max. | Unit |
|---------------|--|---------|------|------|
| θ_{JA} | Thermal Resistance (Junction to Ambient) (Assume no ambient airflow, no heat sink) | TO92 | 200 | °C/W |
| | | SOT89 | 200 | °C/W |
| | | SOT23-3 | 500 | °C/W |
| P_D | Power Dissipation | TO92 | 0.50 | W |
| | | SOT89 | 0.50 | W |
| | | SOT23-3 | 0.20 | W |

Note: P_D is measured at $T_a = 25^\circ\text{C}$



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Electrical Characteristics

TX7521Mxx, +2.1V Output Type

| Symbol | Parameter | Test Conditions | | Min. | Typ. | Max. | Unit |
|---|-------------------------|-----------------|---|-------|-------|-------|-------|
| | | V _{IN} | Conditions | | | | |
| V _{OUT} | Output Voltage | 4.1V | I _{OUT} =10mA | 2.058 | 2.100 | 2.142 | V |
| I _{OUT} | Output Current | 4.1V | - | 120 | 150 | - | mA |
| Δ V _{OUT} | Load Regulation | 4.1V | 1mA ≤ I _{OUT} ≤ 50mA | - | 60 | 150 | mV |
| V _{DIF} | Voltage Drop(Note) | - | I _{OUT} =1mA, Δ V _{OUT} =2% | - | 50 | - | mV |
| I _{SS} | Current Consumption | 4.1V | No load | - | 1.5 | 2 | μA |
| $\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$ | Line Regulation | - | 3.1V ≤ V _{IN} ≤ 16V I _{OUT} =1mA | - | 0.2 | - | %/V |
| V _{IN} | Input Voltage | - | - | - | - | 15 | V |
| $\frac{\Delta V_{OUT}}{\Delta T_a}$ | Temperature Coefficient | 4.1V | I _{OUT} =10mA 0°C < Ta < 70°C | - | ±0.37 | - | mV/°C |

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

TX7523Mxx, +2.3V Output Type

| Symbol | Parameter | Test Conditions | | Min. | Typ. | Max. | Unit |
|---|-------------------------|-----------------|---|-------|-------|-------|-------|
| | | V _{IN} | Conditions | | | | |
| V _{OUT} | Output Voltage | 4.3V | I _{OUT} =10mA | 2.254 | 2.300 | 2.346 | V |
| I _{OUT} | Output Current | 4.3V | - | 120 | 150 | - | mA |
| Δ V _{OUT} | Load Regulation | 4.3V | 1mA ≤ I _{OUT} ≤ 50mA | - | 60 | 150 | mV |
| V _{DIF} | Voltage Drop(Note) | - | I _{OUT} =1mA, Δ V _{OUT} =2% | - | 50 | - | mV |
| I _{SS} | Current Consumption | 4.3V | No load | - | 1.5 | 2 | μA |
| $\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$ | Line Regulation | - | 3.3V ≤ V _{IN} ≤ 16V I _{OUT} =1mA | - | 0.2 | - | %/V |
| V _{IN} | Input Voltage | - | - | - | - | 15 | V |
| $\frac{\Delta V_{OUT}}{\Delta T_a}$ | Temperature Coefficient | 4.3V | I _{OUT} =10mA 0°C < Ta < 70°C | - | ±0.39 | - | mV/°C |

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.



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TX7525Mxx, +2.5V Output Type

| Symbol | Parameter | Test Conditions | | Min. | Typ. | Max. | Unit |
|---|-------------------------|-----------------|---|------|-------|------|-------|
| | | V _{IN} | Conditions | | | | |
| V _{OUT} | Output Voltage | 4.5V | I _{OUT} =10mA | 2.45 | 2.500 | 2.55 | V |
| I _{OUT} | Output Current | 4.5V | - | 120 | 150 | - | mA |
| Δ V _{OUT} | Load Regulation | 4.5V | 1mA ≤ I _{OUT} ≤ 50mA | - | 60 | 150 | mV |
| V _{DIF} | Voltage Drop(Note) | - | I _{OUT} =1mA, Δ V _{OUT} =2% | - | 50 | - | mV |
| I _{SS} | Current Consumption | 4.5V | No load | - | 1.5 | 2 | μA |
| $\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$ | Line Regulation | - | 3.5V ≤ V _{IN} ≤ 16V I _{OUT} =1mA | - | 0.2 | - | %/V |
| V _{IN} | Input Voltage | - | - | - | - | 15 | V |
| $\frac{\Delta V_{OUT}}{\Delta T_a}$ | Temperature Coefficient | 4.5V | I _{OUT} =10mA 0°C < Ta < 70°C | - | ±0.41 | - | mV/°C |

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

TX7527Mxx, +2.7V Output Type

| Symbol | Parameter | Test Conditions | | Min. | Typ. | Max. | Unit |
|---|-------------------------|-----------------|---|-------|-------|-------|-------|
| | | V _{IN} | Conditions | | | | |
| V _{OUT} | Output Voltage | 4.7V | I _{OUT} =10mA | 2.646 | 2.700 | 2.754 | V |
| I _{OUT} | Output Current | 4.7V | - | 120 | 150 | - | mA |
| Δ V _{OUT} | Load Regulation | 4.7V | 1mA ≤ I _{OUT} ≤ 50mA | - | 60 | 150 | mV |
| V _{DIF} | Voltage Drop(Note) | - | I _{OUT} =1mA, Δ V _{OUT} =2% | - | 50 | - | mV |
| I _{SS} | Current Consumption | 4.7V | No load | - | 1.5 | 2 | μA |
| $\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$ | Line Regulation | - | 3.7V ≤ V _{IN} ≤ 16V I _{OUT} =1mA | - | 0.2 | - | %/V |
| V _{IN} | Input Voltage | - | - | - | - | 15 | V |
| $\frac{\Delta V_{OUT}}{\Delta T_a}$ | Temperature Coefficient | 4.7V | I _{OUT} =10mA 0°C < Ta < 70°C | - | ±0.43 | - | mV/°C |

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.



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TX7530Mxx, +3.0V Output Type

| Symbol | Parameter | Test Conditions | | Min. | Typ. | Max. | Unit |
|---|-------------------------|-----------------|---|------|-------|------|-------|
| | | V _{IN} | Conditions | | | | |
| V _{OUT} | Output Voltage | 5V | I _{OUT} =10mA | 2.94 | 3.00 | 3.06 | V |
| I _{OUT} | Output Current | 5V | - | 120 | 150 | - | mA |
| Δ V _{OUT} | Load Regulation | 5V | 1mA ≤ I _{OUT} ≤ 50mA | - | 60 | 150 | mV |
| V _{DIF} | Voltage Drop(Note) | - | I _{OUT} =1mA, Δ V _{OUT} =2% | - | 50 | - | mV |
| I _{SS} | Current Consumption | 5V | No load | - | 1.5 | 2 | μA |
| $\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$ | Line Regulation | - | 4V ≤ V _{IN} ≤ 16V I _{OUT} =1mA | - | 0.2 | - | %/V |
| V _{IN} | Input Voltage | - | - | - | - | 15 | V |
| $\frac{\Delta V_{OUT}}{\Delta T_a}$ | Temperature Coefficient | 5V | I _{OUT} =10mA 0°C < Ta < 70°C | - | ±0.45 | - | mV/°C |

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

TX7533Mxx, +3.3V Output Type

| Symbol | Parameter | Test Conditions | | Min. | Typ. | Max. | Unit |
|---|-------------------------|-----------------|---|-------|-------|-------|-------|
| | | V _{IN} | Conditions | | | | |
| V _{OUT} | Output Voltage | 5.3V | I _{OUT} =10mA | 3.234 | 3.300 | 3.366 | V |
| I _{OUT} | Output Current | 5.3V | - | 120 | 150 | - | mA |
| Δ V _{OUT} | Load Regulation | 5.3V | 1mA ≤ I _{OUT} ≤ 50mA | - | 60 | 150 | mV |
| V _{DIF} | Voltage Drop(Note) | - | I _{OUT} =1mA, Δ V _{OUT} =2% | - | 50 | - | mV |
| I _{SS} | Current Consumption | 5.3V | No load | - | 1.5 | 2 | μA |
| $\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$ | Line Regulation | - | 4.5V ≤ V _{IN} ≤ 16V I _{OUT} =1mA | - | 0.2 | - | %/V |
| V _{IN} | Input Voltage | - | - | - | - | 15 | V |
| $\frac{\Delta V_{OUT}}{\Delta T_a}$ | Temperature Coefficient | 5.3V | I _{OUT} =10mA 0°C < Ta < 70°C | - | ±0.5 | - | mV/°C |

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.



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TX7536Mxx, +3.6V Output Type

| Symbol | Parameter | Test Conditions | | Min. | Typ. | Max. | Unit |
|---|-------------------------|-----------------|---|-------|-------|-------|-------|
| | | V _{IN} | Conditions | | | | |
| V _{OUT} | Output Voltage | 5.6V | I _{OUT} =10mA | 3.528 | 3.600 | 3.672 | V |
| I _{OUT} | Output Current | 5.6V | - | 120 | 150 | - | mA |
| Δ V _{OUT} | Load Regulation | 5.6V | 1mA ≤ I _{OUT} ≤ 50mA | - | 60 | 150 | mV |
| V _{DIF} | Voltage Drop(Note) | - | I _{OUT} =1mA, Δ V _{OUT} =2% | - | 50 | - | mV |
| I _{SS} | Current Consumption | 5.6V | No load | - | 1.5 | 2.0 | μA |
| $\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$ | Line Regulation | - | 4.6V ≤ V _{IN} ≤ 16V I _{OUT} =1mA | - | 0.2 | - | %/V |
| V _{IN} | Input Voltage | - | - | - | - | 15 | V |
| $\frac{\Delta V_{OUT}}{\Delta T_a}$ | Temperature Coefficient | 5.6V | I _{OUT} =10mA 0°C < Ta < 70°C | - | ±0.6 | - | mV/°C |

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

TX7540Mxx, +4.0V Output Type

| Symbol | Parameter | Test Conditions | | Min. | Typ. | Max. | Unit |
|---|-------------------------|-----------------|---|-------|-------|-------|-------|
| | | V _{IN} | Conditions | | | | |
| V _{OUT} | Output Voltage | 6.0V | I _{OUT} =10mA | 3.920 | 4.000 | 4.080 | V |
| I _{OUT} | Output Current | 6.0V | - | 120 | 150 | - | mA |
| Δ V _{OUT} | Load Regulation | 6.0V | 1mA ≤ I _{OUT} ≤ 50mA | - | 60 | 150 | mV |
| V _{DIF} | Voltage Drop(Note) | - | I _{OUT} =1mA, Δ V _{OUT} =2% | - | 50 | - | mV |
| I _{SS} | Current Consumption | 6.0V | No load | - | 1.5 | 2.0 | μA |
| $\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$ | Line Regulation | - | 5V ≤ V _{IN} ≤ 16V I _{OUT} =1mA | - | 0.2 | - | %/V |
| V _{IN} | Input Voltage | - | - | - | - | 15 | V |
| $\frac{\Delta V_{OUT}}{\Delta T_a}$ | Temperature Coefficient | 6.0V | I _{OUT} =10mA 0°C < Ta < 70°C | - | ±0.6 | - | mV/°C |

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.



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TX7544Mxx, +4.4V Output Type

| Symbol | Parameter | Test Conditions | | Min. | Typ. | Max. | Unit |
|---|-------------------------|-----------------|---|-------|-------|-------|-------|
| | | V _{IN} | Conditions | | | | |
| V _{OUT} | Output Voltage | 6.4V | I _{OUT} =10mA | 4.312 | 4.400 | 4.488 | V |
| I _{OUT} | Output Current | 6.4V | - | 120 | 150 | - | mA |
| Δ V _{OUT} | Load Regulation | 6.4V | 1mA ≤ I _{OUT} ≤ 50mA | - | 60 | 150 | mV |
| V _{DIF} | Voltage Drop(Note) | - | I _{OUT} =1mA, Δ V _{OUT} =2% | - | 50 | - | mV |
| I _{SS} | Current Consumption | 6.4V | No load | - | 1.5 | 2.0 | μA |
| $\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$ | Line Regulation | - | 5.4V ≤ V _{IN} ≤ 16V I _{OUT} =1mA | - | 0.2 | - | %/V |
| V _{IN} | Input Voltage | - | - | - | - | 15 | V |
| $\frac{\Delta V_{OUT}}{\Delta T_a}$ | Temperature Coefficient | 6.4V | I _{OUT} =10mA 0°C < T _a < 70°C | - | ±0.7 | - | mV/°C |

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

TX7545Mxx, +4.5V Output Type

| Symbol | Parameter | Test Conditions | | Min. | Typ. | Max. | Unit |
|---|-------------------------|-----------------|---|-------|-------|-------|-------|
| | | V _{IN} | Conditions | | | | |
| V _{OUT} | Output Voltage | 6.5V | I _{OUT} =10mA | 4.410 | 4.500 | 4.590 | V |
| I _{OUT} | Output Current | 6.5V | - | 120 | 150 | - | mA |
| Δ V _{OUT} | Load Regulation | 6.5V | 1mA ≤ I _{OUT} ≤ 50mA | - | 60 | 150 | mV |
| V _{DIF} | Voltage Drop(Note) | - | I _{OUT} =1mA, Δ V _{OUT} =2% | - | 50 | - | mV |
| I _{SS} | Current Consumption | 6.5V | No load | - | 1.5 | 2.0 | μA |
| $\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$ | Line Regulation | - | 5.5V ≤ V _{IN} ≤ 16V I _{OUT} =1mA | - | 0.2 | - | %/V |
| V _{IN} | Input Voltage | - | - | - | - | 15 | V |
| $\frac{\Delta V_{OUT}}{\Delta T_a}$ | Temperature Coefficient | 6.5V | I _{OUT} =10mA 0°C < T _a < 70°C | - | ±0.7 | - | mV/°C |

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.



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TX7550Mxx, +5.0V Output Type

| Symbol | Parameter | Test Conditions | | Min. | Typ. | Max. | Unit |
|---|-------------------------|-----------------|---|------|-------|------|-------|
| | | V _{IN} | Conditions | | | | |
| V _{OUT} | Output Voltage | 7V | I _{OUT} =10mA | 4.9 | 5.00 | 5.1 | V |
| I _{OUT} | Output Current | 7V | - | 120 | 150 | - | mA |
| Δ V _{OUT} | Load Regulation | 7V | 1mA ≤ I _{OUT} ≤ 50mA | - | 60 | 150 | mV |
| V _{DIF} | Voltage Drop(Note) | - | I _{OUT} =1mA, Δ V _{OUT} =2% | - | 50 | - | mV |
| I _{SS} | Current Consumption | 7V | No load | - | 1.5 | 2.0 | μA |
| $\frac{\Delta V_{OUT}}{\Delta V_{IN} \times V_{OUT}}$ | Line Regulation | - | 6V ≤ V _{IN} ≤ 16V I _{OUT} =1mA | - | 0.2 | - | %/V |
| V _{IN} | Input Voltage | - | - | - | - | 15 | V |
| $\frac{\Delta V_{OUT}}{\Delta T_a}$ | Temperature Coefficient | 7V | I _{OUT} =10mA 0°C < T _a < 70°C | - | ±0.75 | - | mV/°C |

Note: Dropout voltage is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN} = V_{OUT}+2V with a fixed load.

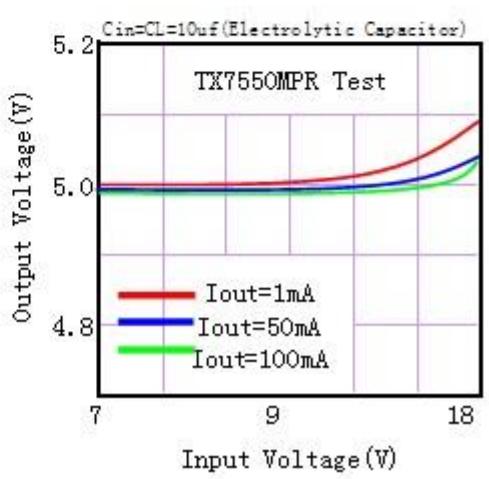
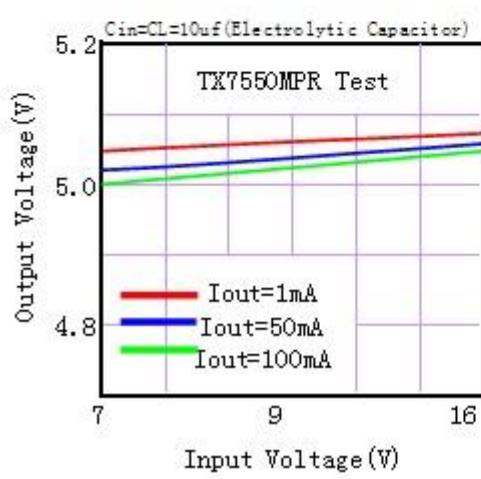
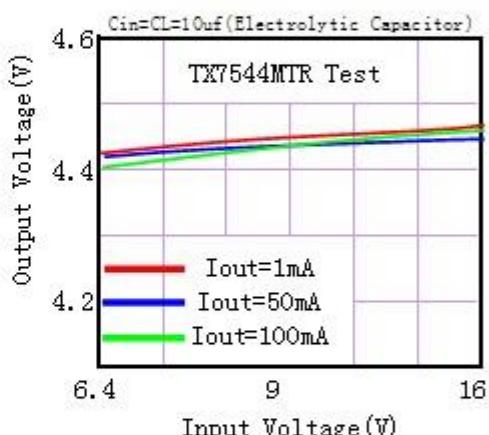
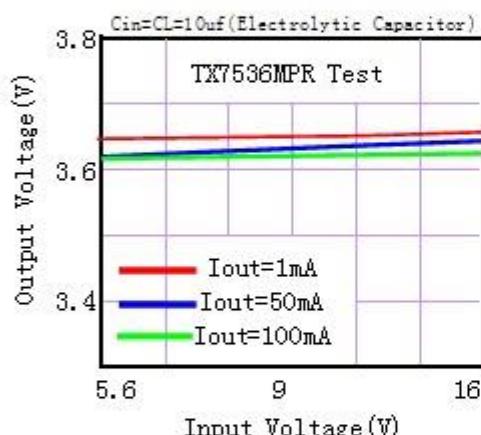
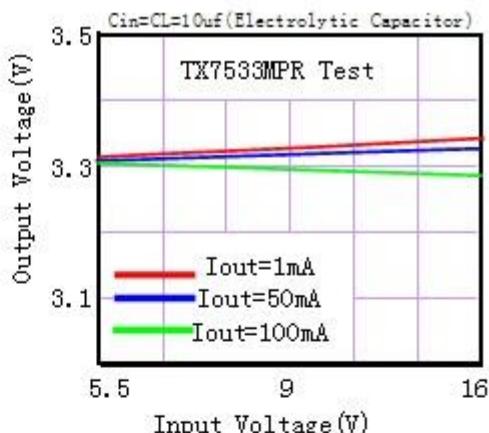
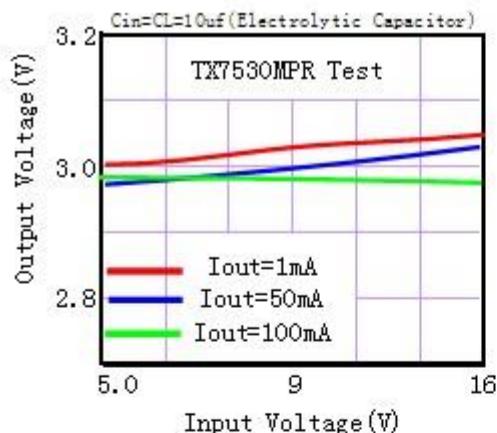


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Typical Performance Characteristics

(1) Output Voltage vs Input voltage



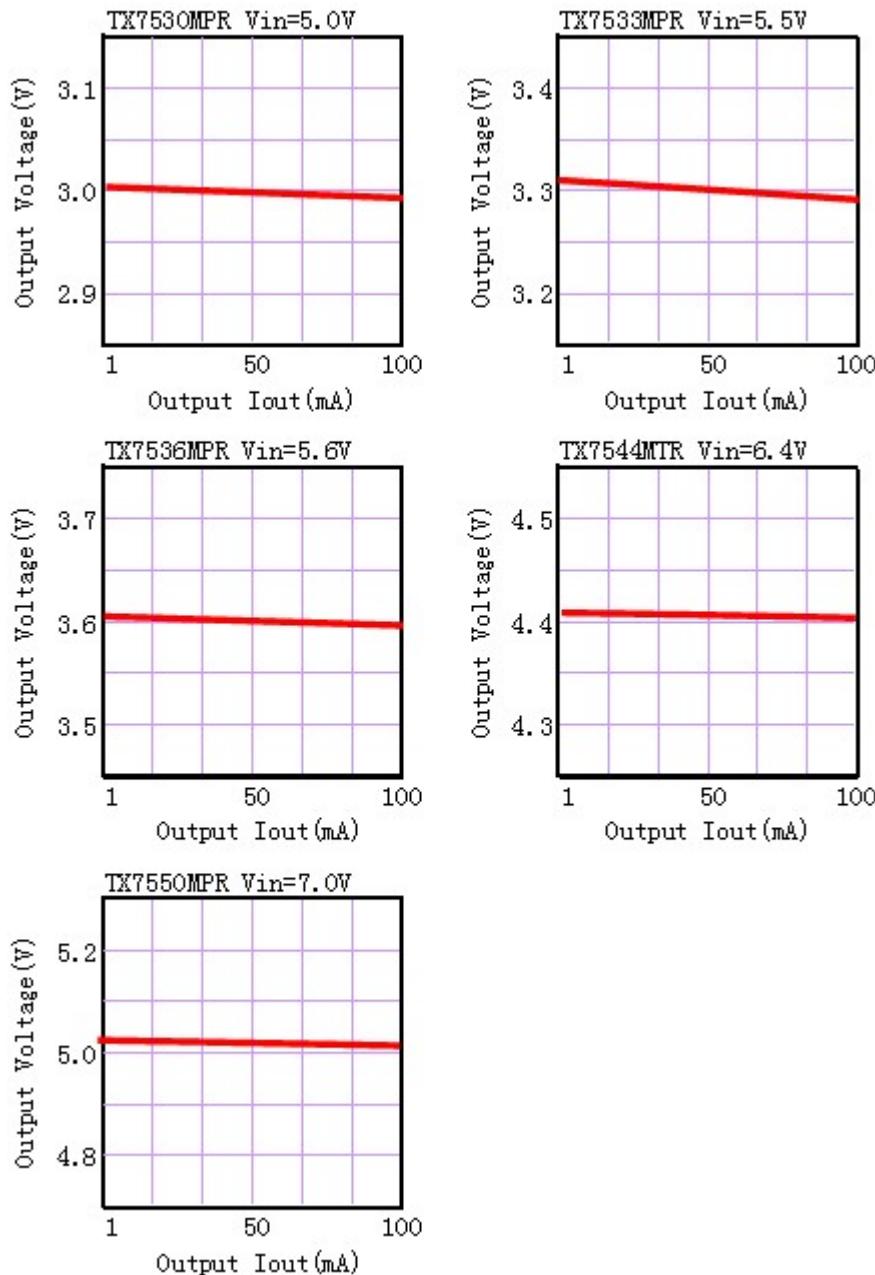


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(2) Output Voltage vs. Output Current



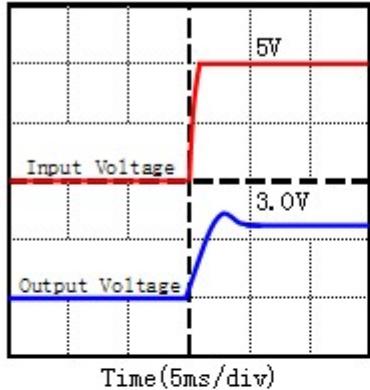


TX75XXM series

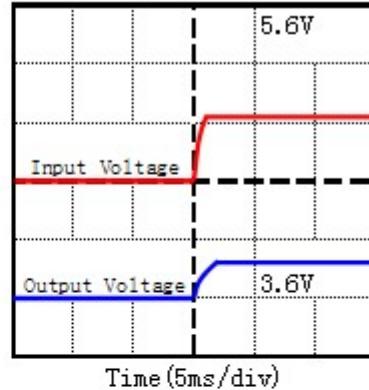
150mA Low Power LDO

(3) Input Transient Response

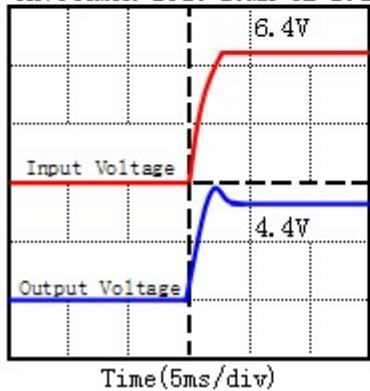
TX7530MTR Iout=10mA CL=10uF



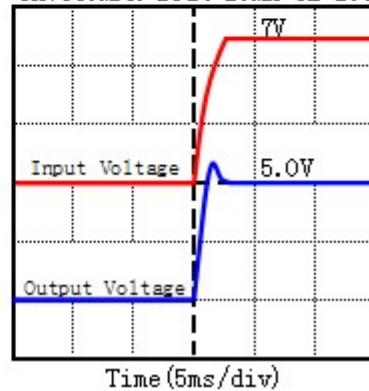
TX7536MTR Iout=10mA CL=10uF



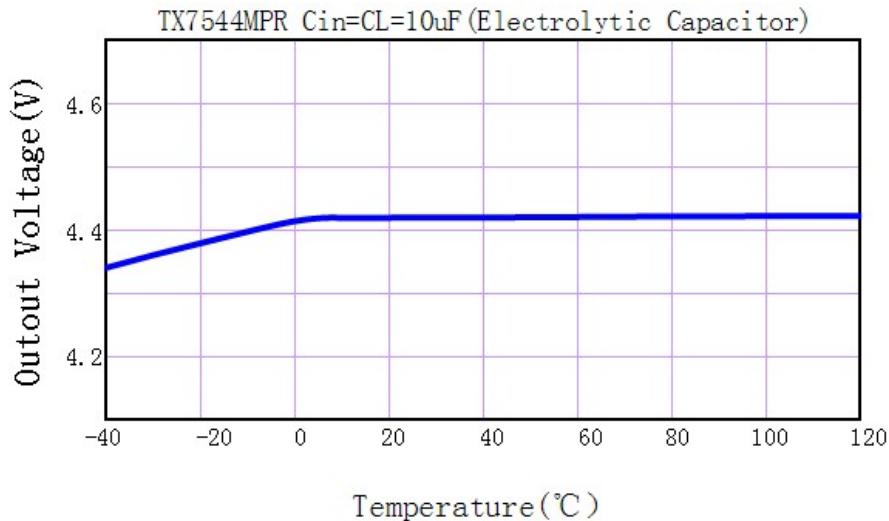
TX7544MTR Iout=10mA CL=10uF



TX7550MPR Iout=10mA CL=10uF



(4) Output Voltage vs.Ambient Temperature





TX75XXM series

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(5) MAX Output Current Vs. Input Voltage

TX7530MPR

| Input Voltage | Max Output Current |
|---------------|--------------------|
| 5V | 150mA |
| 9V | 150mA |
| 12V | 100mA |
| 16V | 60mA |

TX7533MPR

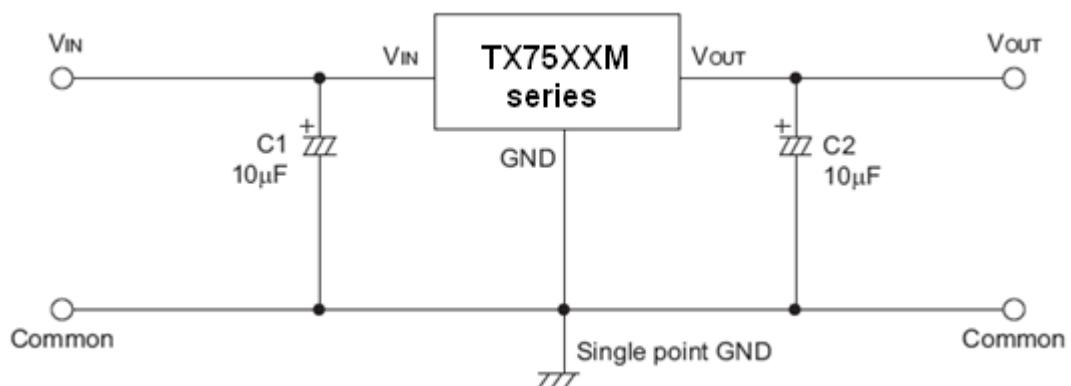
| Input Voltage | Max Output Current |
|---------------|--------------------|
| 5.3V | 150mA |
| 9V | 150mA |
| 12V | 150mA |
| 16V | 100mA |

TX7550MPR

| Input Voltage | Max Output Current |
|---------------|--------------------|
| 7V | 150mA |
| 9V | 150mA |
| 12V | 150mA |
| 16V | 100mA |

Application Circuits

Basic Circuits



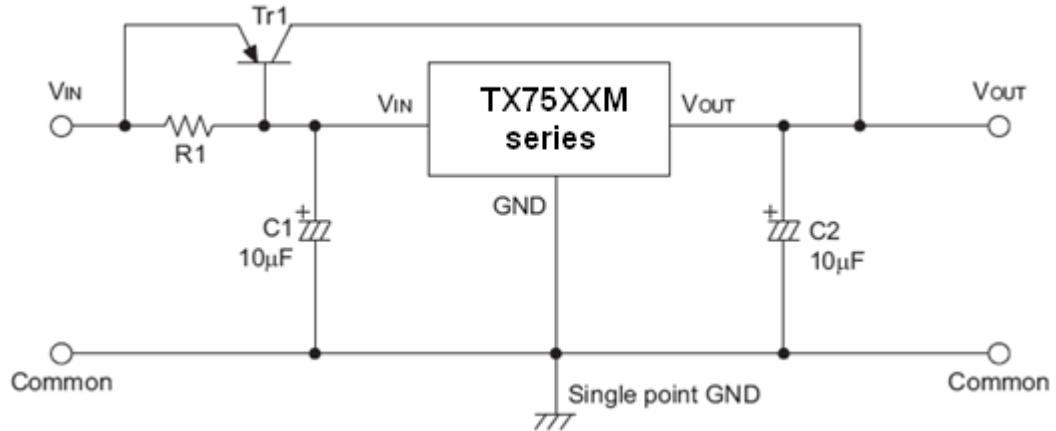


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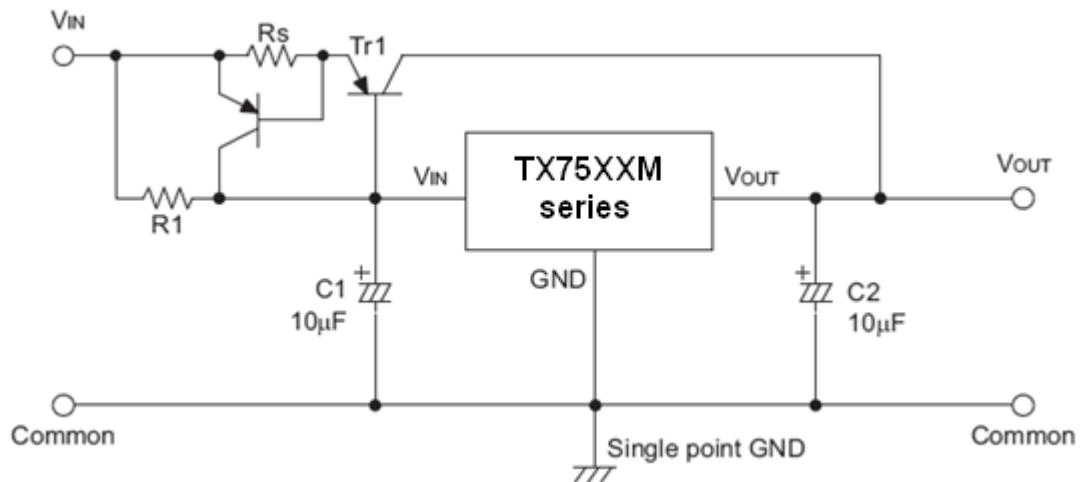
150mA Low Power LDO

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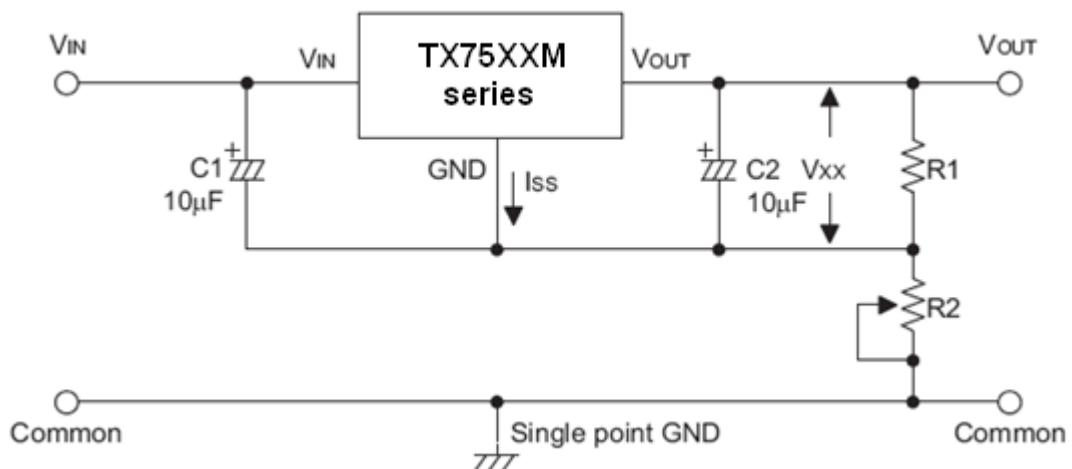
High Output Current Positive Voltage Regulator



Short-Circuit Protection by Tr1



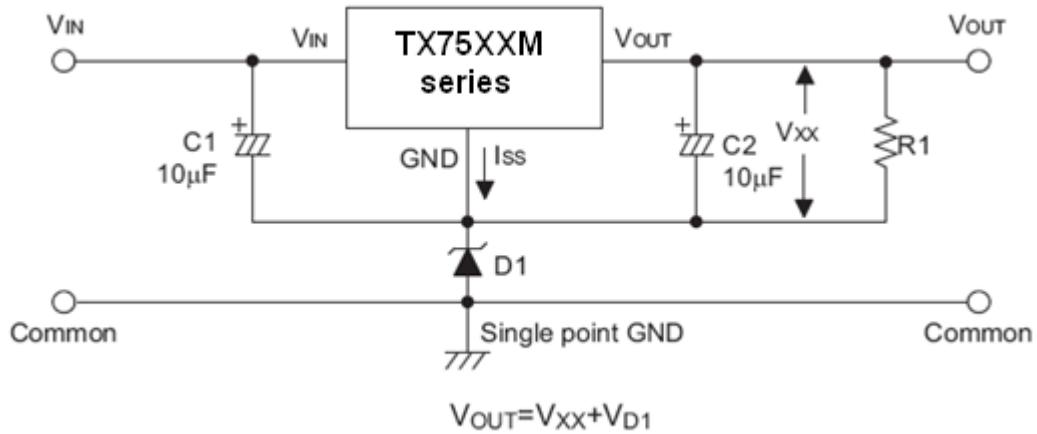
Circuit for Increasing Output Voltage



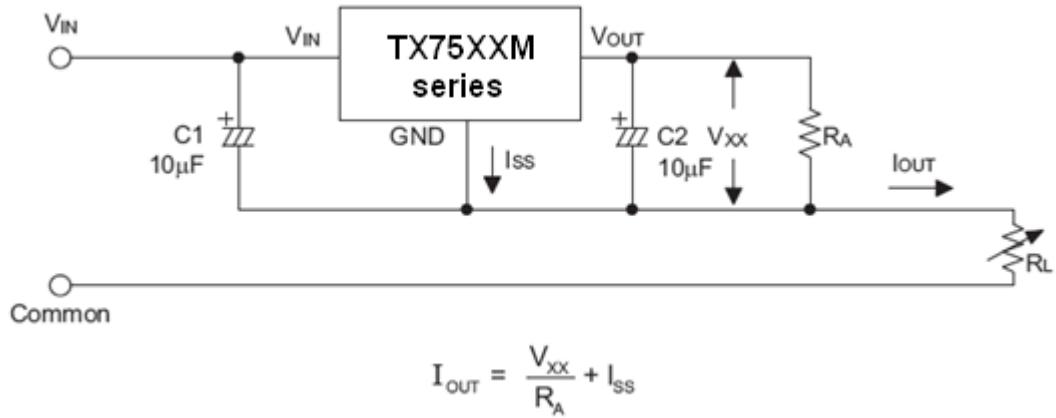


TX75XXM series 150mA Low Power LDO

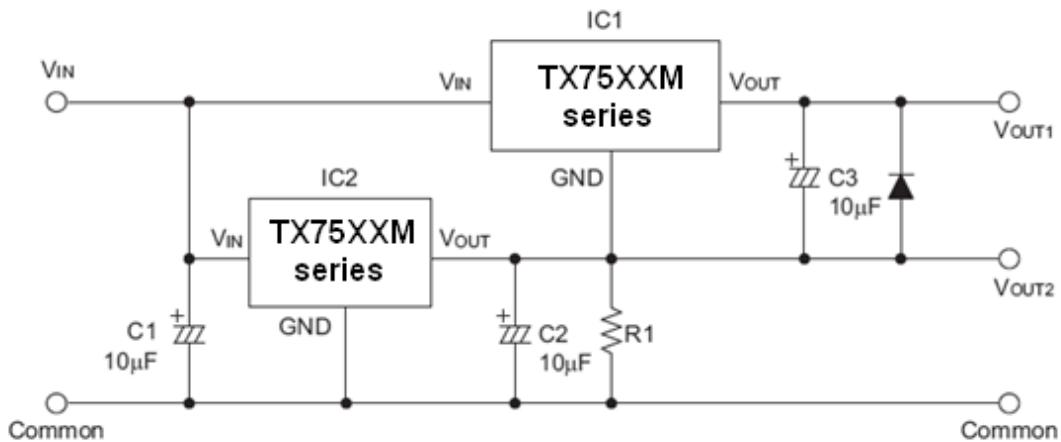
Circuit for Increasing Output Voltage



Constant Current Regulator



Dual Supply



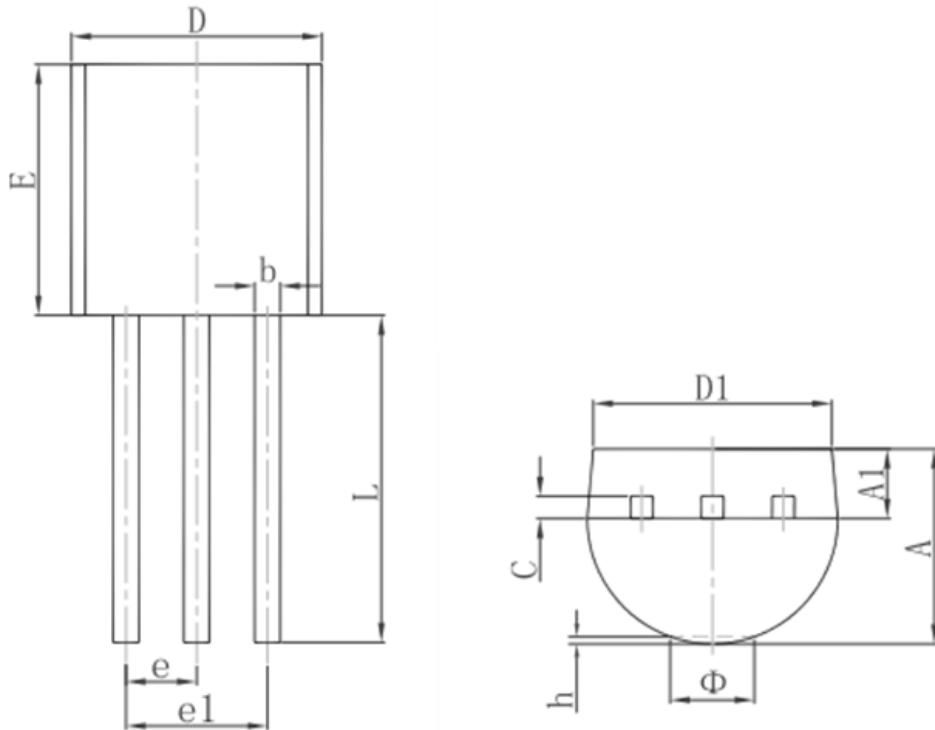


TX75XXM series

150mA Low Power LDO

<http://www.txsemi.com>

Package Information
3-pin TO92 Outline Dimensions



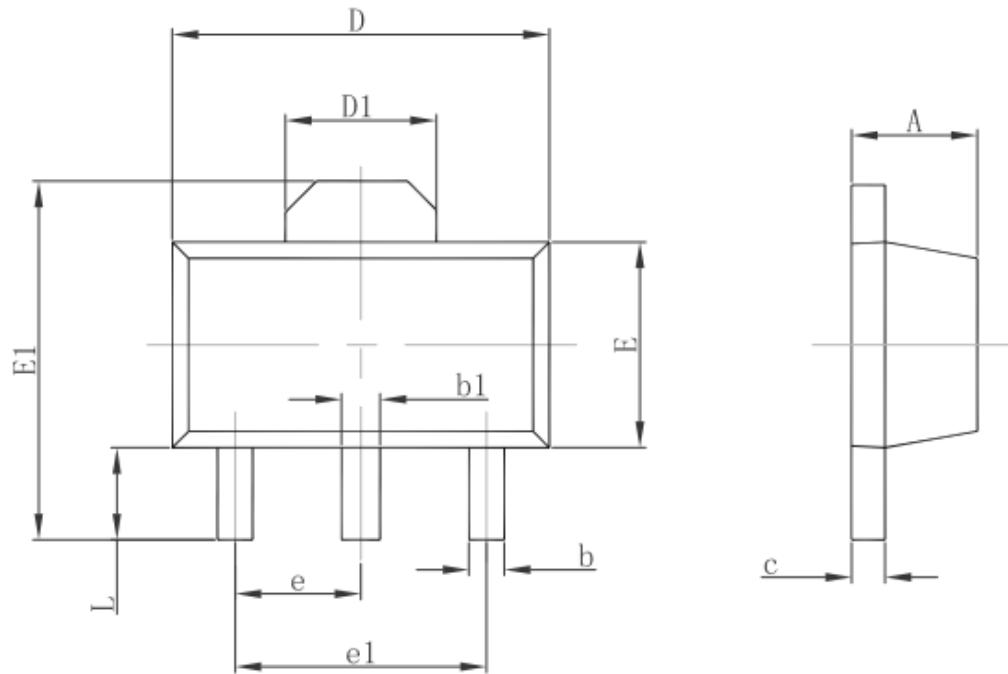
| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|--------|----------------------|-------|
| | Min. | Max. | Min. | Max. |
| A | 3.300 | 3.700 | 0.130 | 0.146 |
| A1 | 1.100 | 1.400 | 0.043 | 0.055 |
| b | 0.380 | 0.550 | 0.015 | 0.022 |
| c | 0.360 | 0.510 | 0.014 | 0.020 |
| D | 4.300 | 4.700 | 0.169 | 0.185 |
| D1 | 3.430 | | 0.135 | |
| E | 4.300 | 4.700 | 0.169 | 0.185 |
| e | 1.270 TYP. | | 0.050 TYP. | |
| e1 | 2.440 | 2.640 | 0.096 | 0.104 |
| L | 14.100 | 14.500 | 0.555 | 0.571 |
| Φ | | 1.600 | | 0.063 |
| h | 0.000 | 0.380 | 0.000 | 0.015 |



TX75XXM series

150mA Low Power LDO

3-pin SOT89 Outline Dimensions



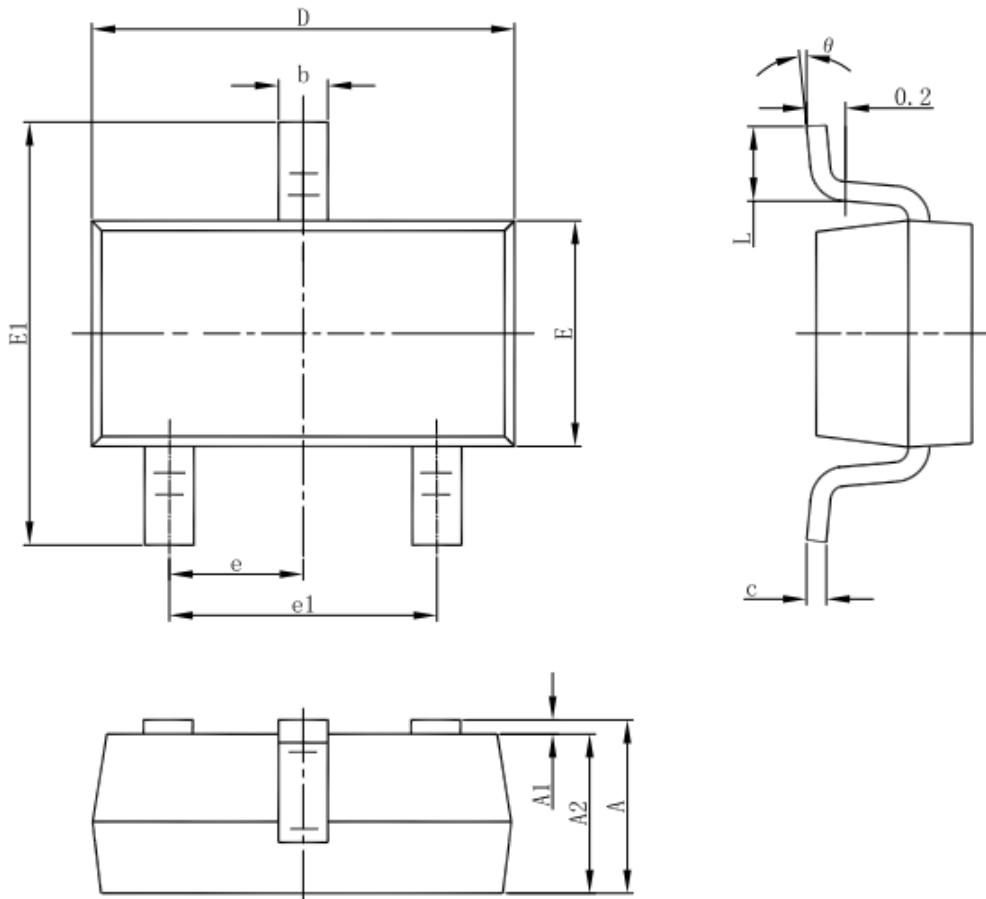
| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min. | Max. | Min. | Max. |
| A | 1.400 | 1.600 | 0.055 | 0.063 |
| b | 0.320 | 0.520 | 0.013 | 0.020 |
| b1 | 0.400 | 0.580 | 0.016 | 0.023 |
| c | 0.350 | 0.440 | 0.014 | 0.017 |
| D | 4.400 | 4.600 | 0.173 | 0.181 |
| D1 | 1.550 REF. | | 0.061 REF. | |
| E | 2.300 | 2.600 | 0.091 | 0.102 |
| E1 | 3.940 | 4.250 | 0.155 | 0.167 |
| e | 1.500 TYP. | | 0.060 TYP. | |
| e1 | 3.000 TYP. | | 0.118 TYP. | |
| L | 0.900 | 1.200 | 0.035 | 0.047 |



TX75XXM series

150mA Low Power LDO

3-pin SOT23-3 Outline Dimensions



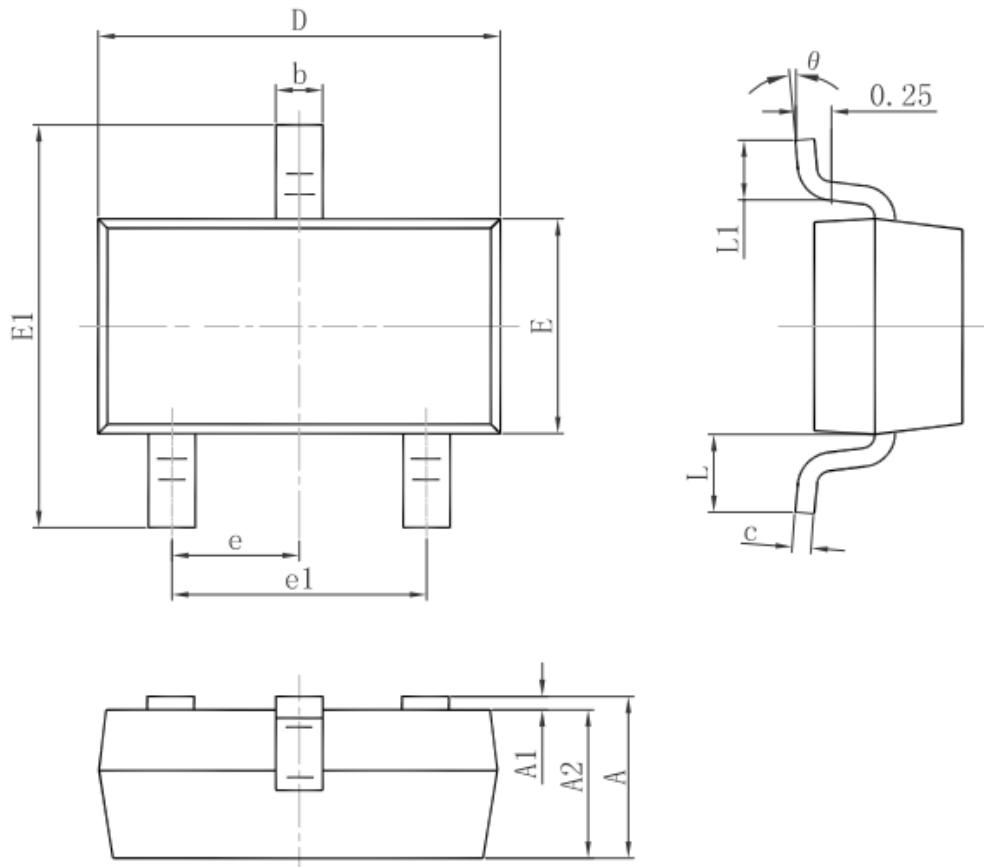
| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min | Max | Min | Max |
| A | 1.050 | 1.250 | 0.041 | 0.049 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 1.050 | 1.150 | 0.041 | 0.045 |
| b | 0.300 | 0.500 | 0.012 | 0.020 |
| c | 0.100 | 0.200 | 0.004 | 0.008 |
| D | 2.820 | 3.020 | 0.111 | 0.119 |
| E | 1.500 | 1.700 | 0.059 | 0.067 |
| E1 | 2.650 | 2.950 | 0.104 | 0.116 |
| e | 0.950(BSC) | | 0.037(BSC) | |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 |
| L | 0.300 | 0.600 | 0.012 | 0.024 |
| θ | 0° | 8° | 0° | 8° |



TX75XXM series

150mA Low Power LDO

3-pin SOT23 Outline Dimensions



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min. | Max. | Min. | Max. |
| A | 0.900 | 1.150 | 0.035 | 0.045 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.900 | 1.050 | 0.035 | 0.041 |
| b | 0.300 | 0.500 | 0.012 | 0.020 |
| c | 0.080 | 0.150 | 0.003 | 0.006 |
| D | 2.800 | 3.000 | 0.110 | 0.118 |
| E | 1.200 | 1.400 | 0.047 | 0.055 |
| E1 | 2.250 | 2.550 | 0.089 | 0.100 |
| e | 0.950 TYP. | | 0.037 TYP. | |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 |
| L | 0.550 REF. | | 0.022 REF. | |
| L1 | 0.300 | 0.500 | 0.012 | 0.020 |
| θ | 0° | 8° | 0° | 8° |



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