



WS7805K

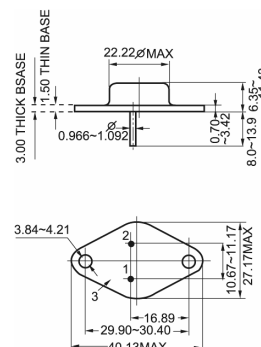
L7800 SERIES REGULATORS

GENERAL DESCRIPTION

The WS7805K three - terminal regulators is available in TO-3 package ,it designed primarily as fixed and adjustable voltage regulators



TO-3



MAXIMUM RATINGS (Tamb =25°C)

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|-------------------------|------------|------|
| V_i | DC input voltage | 35 | V |
| P_{tot} | Total power dissipation | 15 | W |
| T_{OP} | Operating temperature | -20 to 80 | °C |
| T_{stg} | Storage temperature | -55 to 150 | °C |

ELECTRICAL CHARACTERISTICS

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP | MAX | UNIT |
|----------------|--------------------------|--|------|-----|------|-------------------|
| V_o | Output voltage | $T_j=25^\circ\text{C}$ | 4.75 | 5.0 | 5.25 | V |
| ΔV_o | Line regulation | $V_i=8\sim 20\text{V}$, $I_o=100\text{mA}$ | - | - | 100 | mV |
| ΔV_L | Load regulation | $I_o=5\text{mA}\sim 1.5\text{A}$, $V_i=14\text{V}$ | - | - | 100 | mV |
| V_i | Point voltage | | 7.5 | - | 35 | V |
| SVR | Supply voltage rejection | $f=100\text{Hz}$, $V_i=12\text{V}$, $I_o=100\text{mA}$, $V_{ipp}=4\text{V}$ | 62 | - | - | dB |
| I_{OM} | Output current | $V_i=35\text{V}$, $T_j=25^\circ\text{C}$ | - | - | 1.5 | A |
| $\Delta V_o/T$ | Output voltage drift | $I_o=5\text{mA}$, $T_j=0\sim 125^\circ\text{C}$ | - | 0.6 | - | mV/°C |
| V_{NO} | Output noise voltage | $f=10\text{Hz to } 100\text{KHz}$ | - | - | 40 | $\mu\text{V}/V_o$ |