



## Product Overview

### MC7905A: Linear Voltage Regulator, Negative, 5.0 V, 1.0 A

For complete documentation, see the data sheet

#### Product Description

The MC7900 fixed output negative linear voltage regulator is intended as a complement to the popular MC7800 series devices. This negative voltage regulator is available in the same seven-voltage options as the MC7800 devices. In addition, one extra voltage option commonly employed in MECL systems is also available in the negative MC7900 series.

Available in fixed output voltage options from -5.0 V to -24 V, these linear voltage regulators employ current limiting, thermal shutdown and safe-area compensation - making them remarkably rugged under most operating conditions. With adequate heatsinking they can deliver output currents in excess of 1.0 A.

#### Features

- No External Components Required
- Internal Thermal Overload Protection
- Internal Short Circuit Current Limiting
- Output Transistor Safe-Area Compensation
- Available in 2% Voltage Tolerance (See Ordering Information)
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish.

#### Part Electrical Specifications

| Product        | Compliance             | Status | Output | Polarity | V <sub>O</sub> (V) | I <sub>O</sub> Typ (A) | V <sub>I</sub> Max (V) | V <sub>DO</sub> Typ (V) | I <sub>q</sub> Typ (mA) | PSRR (dB) | Noise (μV <sub>rms</sub> ) | Package Type         |
|----------------|------------------------|--------|--------|----------|--------------------|------------------------|------------------------|-------------------------|-------------------------|-----------|----------------------------|----------------------|
| MC7905ACD2TG   | Pb-free<br>Halide free | Active | Single | Negative | -5                 | 1                      | -35                    | 1.3                     |                         |           |                            | D <sup>2</sup> PAK-3 |
| MC7905ACD2TR4G | Pb-free<br>Halide free | Active | Single | Negative | -5                 | 1                      | -35                    | 1.3                     |                         |           |                            | D <sup>2</sup> PAK-3 |
| MC7905ACTG     | Pb-free<br>Halide free | Active | Single | Negative | -5                 | 1                      | -35                    | 1.3                     |                         |           |                            | TO-220-3             |

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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