

Product Overview

MC7900: Linear Voltage Regulator, 1 A, 5 V, Negative

For complete documentation, see the data sheet.

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.

Specifications:

	MC7900AC	MC7900B	MC7900C
Tolerance	2%	4%	4%
Temperature Range	0°C to +125°C	-40°C to +125°C	0°C to +125°C
Package	D2PAK, TO-220	D2PAK, TO-220	D2PAK, TO-220

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 _O (V)	I _O Typ (A)	V _I Min (V)	V _I Max (V)	V _{DO} Typ (V)	I _Q Typ (mA)	PSRR (dB)	Noise (μV _{rms})	Enable	Power Good	Package Type
MC7905.2CTG	Pb-free Halide free	Active	Single	Negative	-5.2	1	-6.5	-35	1.3				No	No	TO-220-3
MC7905ACD2TG	Pb-free Halide free	Active	Single	Negative	-5	1	-6.3	-35	1.3				No	No	D ² PAK-3
MC7905ACD2TR4G	Pb-free Halide free	Active	Single	Negative	-5	1	-6.3	-35	1.3				No	No	D ² PAK-3
MC7905ACTG	Pb-free Halide free	Active	Single	Negative	-5	1	-6.3	-35	1.3				No	No	TO-220-3
MC7905BD2TG	Pb-free Halide free	Active	Single	Negative	-5	1	-6.3	-35	1.3	4.4	70	40	No	No	D ² PAK-3
MC7905BD2TR4G	Pb-free Halide free	Active	Single	Negative	-5	1	-6.3	-35	1.3	4.4	70	40	No	No	D ² PAK-3
MC7905BTG	Pb-free Halide free	Active	Single	Negative	-5	1	-6.3	-35	1.3	4.4	70	40	No	No	TO-220-3
MC7905CD2TG	Pb-free Halide free	Active	Single	Negative	-5	1	-6.3	-35	1.3	4.4	70	40	No	No	D ² PAK-3
MC7905CD2TR4G	Pb-free Halide free	Active	Single	Negative	-5	1	-6.3	-35	1.3	4.4	70	40	No	No	D ² PAK-3
MC7905CTG	Pb-free Halide free	Active	Single	Negative	-5	1	-6.3	-35	1.3	4.4	70	40	No	No	TO-220-3
MC7906CD2TG	Pb-free Halide free	Active	Single	Negative	-6	1	-7.3	-35	1.3	4.3	65	45	No	No	D ² PAK-3
MC7906CTG	Pb-free Halide free	Active	Single	Negative	-6	1	-7.3	-35	1.3	4.3	65	45	No	No	TO-220-3
MC7908ACTG	Pb-free Halide free	Active	Single	Negative	-8	1	-9.3	-35	1.3				No	No	TO-220-3
MC7908CD2TG	Pb-free Halide free	Active	Single	Negative	-8	1	-9.3	-35	1.3	4.3	62	52	No	No	D ² PAK-3
MC7908CD2TR4G	Pb-free Halide free	Active	Single	Negative	-8	1	-9.3	-35	1.3	4.3	62	52	No	No	D ² PAK-3
MC7908CTG	Pb-free Halide free	Active	Single	Negative	-8	1	-9.3	-35	1.3	4.3	62	52	No	No	TO-220-3
MC7912ACD2TG	Pb-free Halide free	Active	Single	Negative	-12	1	-13.3	-35	1.3	4.4	61	75	No	No	D ² PAK-3
MC7912ACD2TR4G	Pb-free Halide free	Active	Single	Negative	-12	1	-13.3	-35	1.3	4.4	61	75	No	No	D ² PAK-3
MC7912ACTG	Pb-free Halide free	Active	Single	Negative	-12	1	-13.3	-35	1.3	4.4	61	75	No	No	TO-220-3
MC7912BD2TG	Pb-free Halide free	Active	Single	Negative	1.3	1	-13.3	-35	1.3	4.4	61	75	No	No	D ² PAK-3
MC7912BD2TR4G	Pb-free Halide free	Active	Single	Negative	1.3	1	-13.3	-35	1.3	4.4	61	75	No	No	D ² PAK-3
MC7912BTG	Pb-free Halide free	Active	Single	Negative	-12	1	-13.3	-35	1.3	4.4	61	75	No	No	TO-220-3
MC7912CD2TG	Pb-free Halide free	Active	Single	Negative	-12	1	-13.3	-35	1.3	4.4	61	75	No	No	D ² PAK-3
MC7912CD2TR4G	Pb-free Halide free	Active	Single	Negative	-12	1	-13.3	-35	1.3	4.4	61	75	No	No	D ² PAK-3
MC7912CTG	Pb-free Halide free	Active	Single	Negative	-12	1	-13.3	-35	1.3	4.4	61	75	No	No	TO-220-3
MC7915ACD2TG	Pb-free Halide free	Active	Single	Negative	-15	1	-16.3	-35	1.3	4.4	60	90	No	No	D ² PAK-3

MC7915ACTG	Pb-free Halide free	Active	Single	Negative	-15	1	-16.3	-35	1.3	4.4	60	90	No	No	TO-220-3
MC7915BD2TG	Pb-free Halide free	Active	Single	Negative	-15	1	-16.3	-35	1.3	4.4	60	90	No	No	D ² PAK-3
MC7915BD2TR4G	Pb-free Halide free	Active	Single	Negative	-15	1	-16.3	-35	1.3	4.4	60	90	No	No	D ² PAK-3
MC7915BTG	Pb-free Halide free	Active	Single	Negative	-15	1	-16.3	-35	1.3	4.4	60	90	No	No	TO-220-3
MC7915CD2TG	Pb-free Halide free	Active	Single	Negative	-15	1	-16.3	-35	1.3	4.4	60	90	No	No	D ² PAK-3
MC7915CD2TR4G	Pb-free Halide free	Active	Single	Negative	-15	1	-16.3	-35	1.3	4.4	60	90	No	No	D ² PAK-3
MC7915CTG	Pb-free Halide free	Active	Single	Negative	-15	1	-16.3	-35	1.3	4.4	60	90	No	No	TO-220-3
MC7918CTG	Pb-free Halide free	Active	Single	Negative	-18	1	-19.3	-35	1.3	4.5	59	110	No	No	TO-220-3
MC7924BTG	Pb-free Halide free	Active	Single	Negative	-24	1	-25.3	-40	1.3	4.6	56	170	No	No	TO-220-3
MC7924CD2TG	Pb-free Halide free	Active	Single	Negative	-24	1	-25.3	-40	1.3	4.6	56	170	No	No	D ² PAK-3
MC7924CTG	Pb-free Halide free	Active	Single	Negative	-24	1	-25.3	-40	1.3	4.6	56	170	No	No	TO-220-3

For more information please contact your local sales support at www.onsemi.com.

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