



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

Product Specification

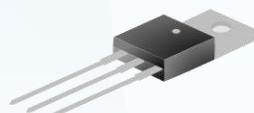
▶ Domestic Part Number	L79XX
▶ Overseas Part Number	L79XX
▶ Equivalent Part Number	L79XX



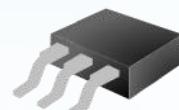
EV is the abbreviation of name EVVO

FEATURES

- Output current in excess of 1.0A
- Internal short current circuit limiting
- Internal thermal overload protection
- Output voltage offered of 4% tolerance



TO220-3



TO263-3

ABSOLUTE MAXIMUM RATINGS

Condition	VALUE	UNIT
Maximum input voltage at $T_J=25^\circ\text{C}$	-35	V
Maximum operating junction temperature	+125	$^\circ\text{C}$
Lead Temperature (TL) (Soldering, 10 seconds)	+245	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS L7905

($V_{IN} = -10\text{V}$, $I_O = 500\text{mA}$, $C_{IN}=2.2\mu\text{F}$, $C_O=1.0\mu\text{F}$, $T_J=25^\circ\text{C}$, unless otherwise noted)

CHARACTERISTIC	SYMBOL	TEST CONDITION	NORMS		UNIT
			Min	Max	
Output Voltage	V_O	$-7.0\text{V} \geq V_{IN} \geq -20\text{V}$ $5.0\text{mA} \leq I_O \leq 1.0\text{ A}$	-4.82	-5.18	V
Line Regulation	ΔU_V	$I_O = 100\text{mA}$, $-7.0\text{V} \geq V_{IN} \geq -25\text{V}$ $I_O = 100\text{mA}$, $-8.0\text{V} \geq V_{IN} \geq -12\text{V}$ $I_O = 500\text{mA}$, $-7.0\text{V} \geq V_{IN} \geq -25\text{V}$ $I_O = 500\text{mA}$, $-8.0\text{V} \geq V_{IN} \geq -12\text{V}$		47.5 23.5 95 47.5	mV
Load Regulation	ΔU_I	$5.0\text{mA} \leq I_O \leq 1.5\text{ A}$ $250\text{mA} \leq I_O \leq 750\text{mA}$		95 47.5	mV
Quiescent Current	I_B			7.8	mA
Quiescent Current Change	ΔI_B	$-7.0\text{V} \geq V_{IN} \geq -25\text{V}$ $5.0\text{mA} \leq I_O \leq 1.5\text{ A}$		1.25 0.48	mA

ELECTRICAL CHARACTERISTICS L7906

($V_{IN} = -11V$, $I_o = 500mA$, $C_{IN}=2.2\mu F$, $C_O=1.0\mu F$, $T_J=25^{\circ}C$, unless otherwise noted)

CHARACTERISTIC	SYMBOL	TEST CONDITION	NORMS		UNIT
			Min	Max	
Output Voltage	V_o	$-8.0V \geq V_{IN} \geq -21V$ $5.0mA \leq I_o \leq 1.0A$	-5.77	-6.23	V
Line Regulation	ΔU_V	$I_o = 100mA, -8.0V \geq V_{IN} \geq -25V$ $I_o = 100mA, -9.0V \geq V_{IN} \geq -13V$ $I_o = 500mA, -8.0V \geq V_{IN} \geq -25V$ $I_o = 500mA, -9.0V \geq V_{IN} \geq -13V$		57 28.5 114 57	mV
Load Regulation	ΔU_I	$5.0mA \leq I_o \leq 1.5A$ $250mA \leq I_o \leq 750mA$		114 57	mV
Quiescent Current	I_B			7.8	mA
Quiescent Current Change	ΔI_B	$-8.0V \geq V_{IN} \geq -25V$ $5.0mA \leq I_o \leq 1.5A$		1.25 0.48	mA

ELECTRICAL CHARACTERISTICS L7908(V_{IN}= -14V, I_O = 500mA, C_{IN}=2.2μF, C_O=1.0μF, T_J=25°C, unless otherwise noted)

CHARACTERISTIC	SYMBOL	TEST CONDITION	NORMS		UNIT
			Min	Max	
Output Voltage	V _O	-10.5V ≥ V _{IN} ≥ -23V 5.0mA ≤ I _O ≤ 1.0 A	-7.72	-8.28	V
Line Regulation	ΔU _V	I _O = 100mA, -10.5V ≥ V _{IN} ≥ -25V I _O = 100mA, -11V ≥ V _{IN} ≥ -17V I _O = 500mA, -10.5V ≥ V _{IN} ≥ -25V I _O = 500mA, -11V ≥ V _{IN} ≥ -17V		76 38 152 76	mV
Load Regulation	ΔU _I	5.0mA ≤ I _O ≤ 1.5 A 250mA ≤ I _O ≤ 750mA		152 76	mV
Quiescent Current	I _B			7.8	mA
Quiescent Current Change	ΔI _B	-10.5V ≥ V _{IN} ≥ -25V 5.0mA ≤ I _O ≤ 1.5 A		0.98 0.48	mA

ELECTRICAL CHARACTERISTICS L7912(V_{IN}= -19V, I_O = 500mA, C_{IN}=2.2μF, C_O=1.0μF, T_J=25°C, unless otherwise noted)

CHARACTERISTIC	SYMBOL	TEST CONDITION	NORMS		UNIT
			Min	Max	
Output Voltage	V _O	-14.5V ≥ V _{IN} ≥ -21V 5.0mA ≤ I _O ≤ 1.0 A	-11.52	-12.48	V
Line Regulation	ΔU _V	I _O = 100mA, -14.5V ≥ V _{IN} ≥ -30V I _O = 100mA, -16V ≥ V _{IN} ≥ -22V I _O = 500mA, -14.5V ≥ V _{IN} ≥ -30V I _O = 500mA, -16V ≥ V _{IN} ≥ -22V		114 58.5 228 114	mV
Load Regulation	ΔU _I	5.0mA ≤ I _O ≤ 1.5 A 250mA ≤ I _O ≤ 750mA		228 114	mV
Quiescent Current	I _B			7.8	mA
Quiescent Current Change	ΔI _B	-14.5V ≥ V _{IN} ≥ -30V 5.0mA ≤ I _O ≤ 1.5 A		1.25 0.48	mA

ELECTRICAL CHARACTERISTICS L7915(V_{IN}= -23V, I_O = 500mA, C_{IN}=2.2μF, C_O=1.0μF, T_J=25°C, unless otherwise noted)

CHARACTERISTIC	SYMBOL	TEST CONDITION	NORMS		UNIT
			Min	Max	
Output Voltage	V _O	-17.5V ≥ V _{IN} ≥ -30V 5.0mA ≥ I _O ≥ 1.0 A	-14.44	-15.56	V
Line Regulation	ΔU _V	I _O = 100mA, -17.5V ≥ V _{IN} ≥ -30V I _O = 100mA, -20V ≥ V _{IN} ≥ -26V I _O = 500mA, -17.5V ≥ V _{IN} ≥ -30V I _O = 500mA, -20V ≥ V _{IN} ≥ -26V		142 71 285 142	mV
Load Regulation	ΔU _I	5.0mA ≤ I _O ≤ 1.5 A 250mA ≤ I _O ≤ 750mA		285 142	mV
Quiescent Current	I _B			7.8	mA
Quiescent Current Change	ΔI _B	-17.5V ≥ V _{IN} ≥ -30V 5.0mA ≤ I _O ≤ 1.5 A		0.98 0.48	mA

ELECTRICAL CHARACTERISTICS L7918(V_{IN}= -27V, I_O = 500mA, C_{IN}=2.2μF, C_O=1.0μF, T_J=25°C, unless otherwise noted)

CHARACTERISTIC	SYMBOL	TEST CONDITION	NORMS		UNIT
			Min	Max	
Output Voltage	V _O	-21V ≥ V _{IN} ≥ -33V 5.0mA ≤ I _O ≤ 1.0 A	-17.34	-18.66	V
Line Regulation	ΔU _V	I _O = 100mA, -21V ≥ V _{IN} ≥ -33V I _O = 100mA, -24V ≥ V _{IN} ≥ -30V I _O = 500mA, -21V ≥ V _{IN} ≥ -33V I _O = 500mA, -24V ≥ V _{IN} ≥ -30V		171 85.5 342 171	mV
Load Regulation	ΔU _I	5.0mA ≤ I _O ≤ 1.5 A 250mA ≤ I _O ≤ 750mA		342 171	mV
Quiescent Current	I _B			7.8	mA
Quiescent Current Change	ΔI _B	-21V ≥ V _{IN} ≥ -33V 5.0mA ≤ I _O ≤ 1.5 A		0.98 0.48	mA

ELECTRICAL CHARACTERISTICS L7924

($V_{IN} = -33V$, $I_o = 500mA$, $C_{IN}=2.2\mu F$, $C_O=1.0\mu F$, $T_j=25^\circ C$, unless otherwise noted)

CHARACTERISTIC	SYMBOL	TEST CONDITION	NORMS		UNIT
			Min	Max	
Output Voltage	V_o	$-27V \geq V_{IN} \geq -38V$ $5.0mA \leq I_o \leq 1.0A$	-23.05	-24.95	V
Line Regulation	ΔU_v	$I_o = 100mA$, $-27V \geq V_{IN} \geq -38V$ $I_o = 100mA$, $-30V \geq V_{IN} \geq -36V$ $I_o = 500mA$, $-27V \geq V_{IN} \geq -38V$ $I_o = 500mA$, $-30V \geq V_{IN} \geq -36V$		228 114 446 228	mV
Load Regulation	ΔU_l	$5.0mA \leq I_o \leq 1.5A$ $250mA \leq I_o \leq 750mA$		446 228	mV
Quiescent Current	I_B			7.8	mA
Quiescent Current Change	ΔI_B	$-27V \geq V_{IN} \geq -33V$ $5.0mA \leq I_o \leq 1.5A$		0.98 0.48	mA

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