MSKSEMI 美森科

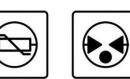


ESD













L7905CV(MS)

Product specification





Three-terminal positive voltage regulator

FEATURES

Maximum Output current IOM: 1.5A

Output voltage Vo:-5V

Continuous total dissipation

P_D: 2 W (T_a = 25 °C) 15 W(T_c = 25 °C)

Reference News

PACKAGE OUTLINE	Marking
1.GND	MSKSEMI
2.IN	L7905CV
3.OUT	CHN MS**

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

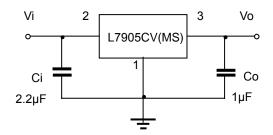
Parameter	Symbol	Value	Unit
Input Voltage	Vi	-35	V
Thermal Resistance from Junction to Ambient	R _{θJA}	83.3	°C/W
Thermal Resistance from Junction to Case	R _{eJC}	8.33	°C/W
Operating Junction Temperature Range	T _{OPR}	0~+150	${\mathfrak C}$
Storage Temperature Range	T _{STG}	-55~+150	${\mathbb C}$

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE

(Vi=-10V,lo=500mA,Ci=2.2 μ F, Co=1 μ F, unless otherwise specified)

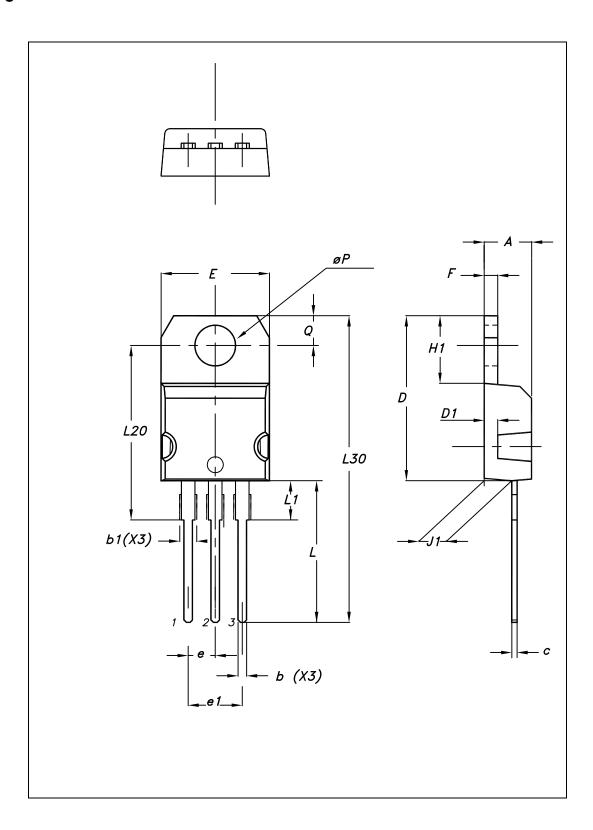
Parameter	Symbol	Test condition		Min	Тур	Max	Unit
			25°C	-4.8	-5	-5.2	V
Output Voltage	Vo	-7V≤V _i ≤-20V, Io=5mA-1A , P≤15W	0-125℃	-4.75	-5	-5.25	V
Load Regulation	ΔVο	Io=5mA-1.2A	25°C		15	100	mV
		lo=250mA-750mA	25℃		5	50	mV
Line Regulation	ΔVο	-7V≤V _i ≤-25V	25℃		12.5	50	mV
		-8V≤V _i ≤-12V	25℃		4	15	mV
Quiescent Current	Iq		25℃		1.5	2	mA
Quiescent Current Change	Δlq	-7V≤V _i ≤-25V	0-125℃			0.5	mA
Quiescent Current Change	Δlq	5mA≤l _O ≤1A	0-125℃			0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25℃		125		μV
Output Voltage Drift	ΔVo/ΔΤ	I _O =5mA	0-125℃		-0.4		mV/℃
Ripple Rejection	RR	-8V≤V _i ≤-18V,f=120Hz	0-125℃	54	60		dB
Dropout Voltage	Vd	Io=1A	25℃		1.1		V
Peak Current	lpk		25℃	·	2.0		А

TYPICAL APPLICATION





Package mechanical data





Package mechanical data

Dim	mm				
Dim.	Min.	Тур.	Max.		
А	4.40		4.60		
b	0.61		0.88		
b1	1.14		1.70		
С	0.48		0.70		
D	15.25		15.75		
D1		1.27			
Е	10		10.40		
е	2.40		2.70		
e1	4.95		5.15		
F	1.23		1.32		
H1	6.20		6.60		
J1	2.40		2.72		
L	13		14		
L1	3.50		3.93		
L20		16.40			
L30		28.90			
ØP	3.75		3.85		
Q	2.65		2.95		

REEL SPECIFICATION

P/N	PKG	QTY
L7905CV(MS)	TO-220	50/One tube 1000/a box of



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