MSKSEMI 美森科













ESD

T

TSS

MOV

GDT

PIFD

L7915CV(MS)

Product specification





Three-terminal positive voltage regulator

FEATURES

Maximum Output current IOM: 1.2 A

Output voltage Vo:-15V

Continuous total dissipation

P_D: 1.5 W (T_a = 25 °C) 15 W(T_c = 25 °C)

Reference News

PACKAGE OUTLINE	Marking
1.GND	MSKSEMI
2.IN	L7915CV
3.OUT	CHN MS**

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

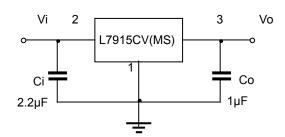
Parameter	Symbol	Value	Unit
Input Voltage	Vi	-35	V
Thermal Resistance Junction-Air	$R_{ heta JA}$	83.3	°C/W
Thermal Resistance Junction-Case	$R_{ heta JC}$	8.33	°C/W
Operating Junction Temperature Range	T _{OPR}	0~150	℃
Storage Temperature Range	T _{STG}	-55~+150	$^{\circ}$

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE

(Vi=-23V, Io=500mA, Ci=2.2 μ F,Co=1 μ F, unless otherwise specified)

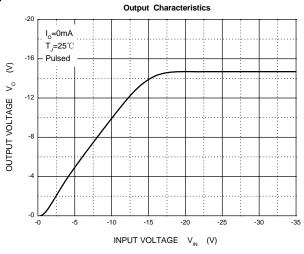
Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
			25℃	-14.4	-15	-15.6	V
Output voltage	Vo	-17.5V≤V _i ≤-30V, Io=5mA-1A, P≤ 15W	0-125℃	-14.25	-15	-15.75	V
Load regulation	ΔVο	Io=5mA-1.2A	25℃		15	200	mV
		Io=250mA-750mA	25℃		5	75	mV
Line regulation	ΔVο	-17.5V≤V _i ≤-30V	25℃		5	100	mV
	Δνο	-20V≤V i≤-26V	25℃		3	50	mV
Quiescent current	lq		25℃		2	3	mA
Quiescent current change	Δlq	-17.5V≤V _i ≤-30V	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℃		375		μV
Output voltage drift	△Vo/△T	I _O =5mA	0-125℃		-1		mV/℃
Ripple rejection	RR	-18.5V≤V _i ≤-28.5V,f=120Hz	0-125℃	54	60		dB
Dropout voltage	Vd	lo=1A	25℃		1.1		V
Peak current	lpk		25℃		2.0		Α

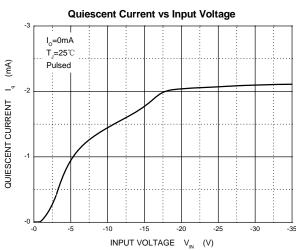
TYPICAL APPLICATION

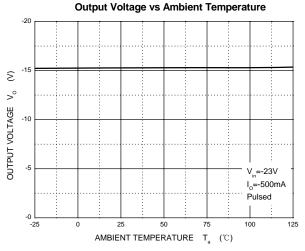


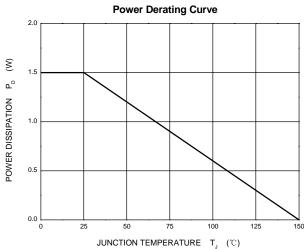


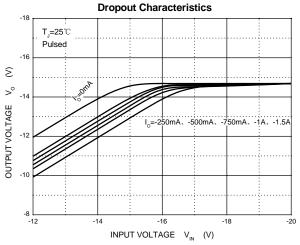
Typical Characterisitics

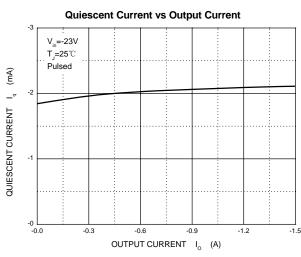


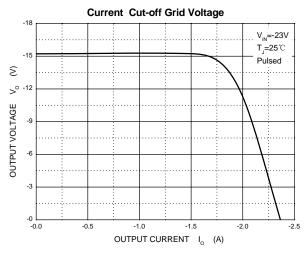






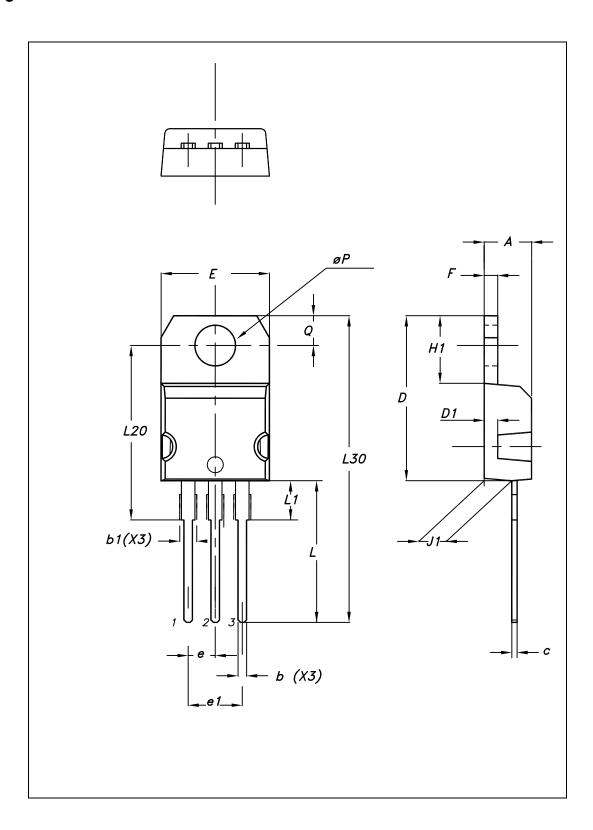








Package mechanical data





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
L7815CV(MS)	TO-220	50/One tube 1000/a box of



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