MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PLED

L7818CV(MS)

Product specification





Three-terminal positive voltage regulator

FEATURES

- Maximum Output current IOM : 1.5 A
- Output voltage Vo:18V
- Continuous total dissipation

P_D: 2 W (T_a = 25 ℃) 15 W(T_c = 25 ℃)

Reference News

PACKAGE OUTLINE	Marking
1.IN	MSKSEMI
2.GND	L7818CV
3.OUT	CHN MS**

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

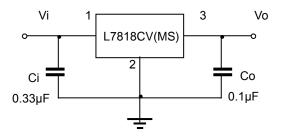
Parameter	Symbol	Value	Unit
Input Voltage	Vi	35	V
Thermal resistance junction-air	RθJA	65	°C/W
Thermal resistance junction-cases	RθJC	5	°C/W
Operating Junction Temperature Range	T _{OPR}	0-150	ĉ
Storage Temperature Range	T _{STG}	-65-150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE

(Vi=23V,lo=500mA,Ci=0.33 $\mu F,$ Co=0.1 $\mu F,$ unless otherwise specified)

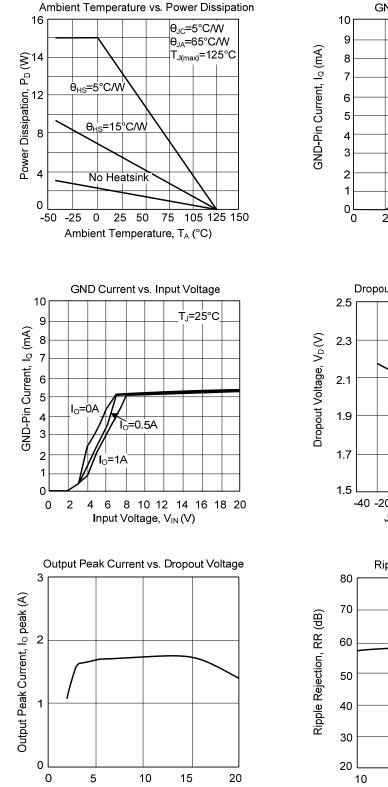
Parameter	Symbol	Test conditions	MIN	ТҮР	MAX	UNIT
Output voltage		T_=25℃	17.3	18	18.7	V
	Vo	21V≤V _i ≤33V, lo=5mA-1A Po≤ 15W	17.1	18	18.9	V
Load Regulation	ΔVο	Tj=25℃, Io=5mA-1.5A		12	360	mV
		TJ=25℃, Io=250mA-750mA		4	180	mV
Line regulation	ΔVο	21V i≤33V TJ=25℃		15	360	mV
		24V i≤30V TJ=25℃		5	180	mV
Quiescent Current	lq	T_=25℃		4.5	8	mA
Quiescent Current Change	Δlq	21V≤V i≤33V			1	mA
	Δlq	5mA≤l ₀≤1A			0.5	mA
Output voltage drift	∆Vo/∆T	I _O =5mA		-1		mV/℃
Output Noise Voltage	V _N	10Hz≤f≤100KHz		110		uV
Ripple Rejection	RR	22V≤V i≤32V,f=120Hz, TJ=25℃	53	69		dB
Dropout Voltage	Vd	T _J =25℃, Io=1A		2		V
Output resistance	Ro	f=1KHz		22		mΩ
Short Circuit Current	lsc	Vi=35V, TJ=25℃		200		mA
Peak Current	lpk	T _J =25℃		2.0		А



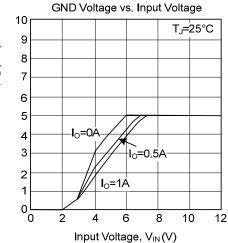




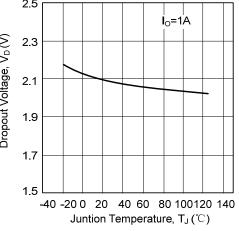
TYPICAL CHARACTERISTICS

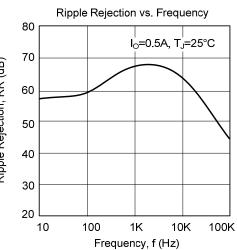


Dropout Voltage, V-dif (V)



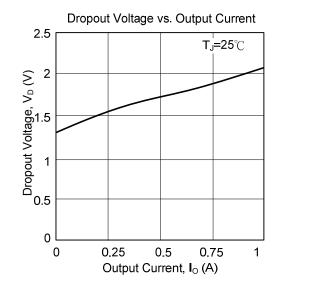
Dropout Voltage vs. Juntion Temperature

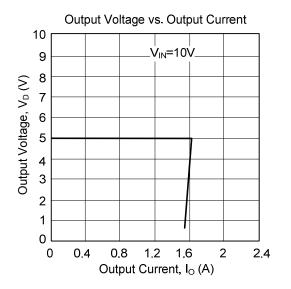






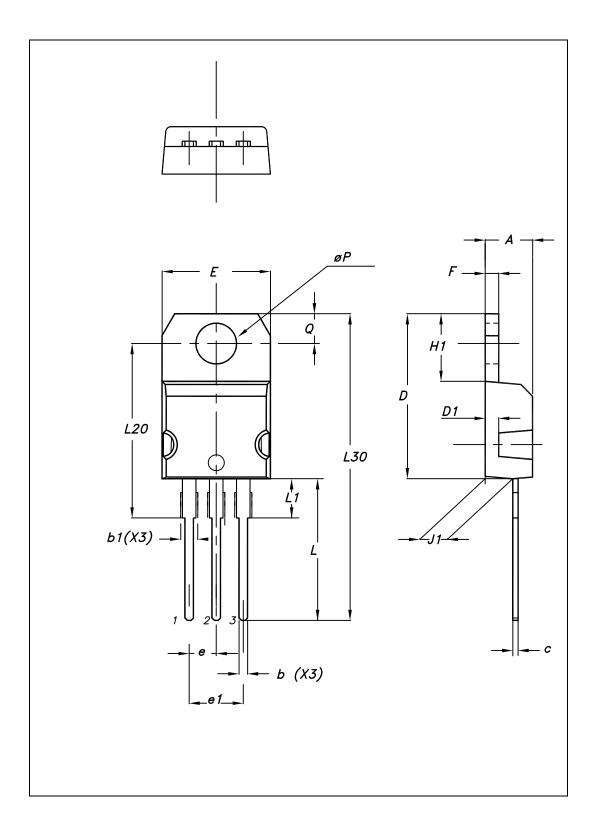
TYPICAL CHARACTERISTICS







Package mechanical data





Package mechanical data

Dim.		mm	
Dim.	Min.	Тур.	Max.
A	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	
E	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	
ØР	3.75		3.85
Q	2.65		2.95

REEL SPECIFICATION

P/N	PKG	QTY
L7818CV(MS)	TO-220	50/One tube 1000/a box of



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