MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PLED

L7815CV(MS)

Product specification





Three-terminal positive voltage regulator

FEATURES

- Maximum Output current IOM: 1.5 A
- Output voltage Vo:15V
- Continuous total dissipation
 - P_D: 1.5 W (T_a = 25 ℃) 15 W(T_c = 25 ℃)

Reference News

PACKAGE OUTLINE		Marking	
1 2 ³	1.IN 2.GND 3.OUT	MSKSEMI L7815CV CHN MS**	

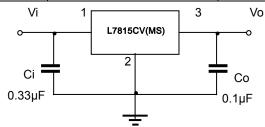
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	Vi	35	V
Thermal resistance junction-air	R _{θJA}	83.3	°C/W
Thermal resistance junction-cases	R _{θJC}	8.33	°C/W
Operating Junction Temperature Range	T _{OPR}	0~+150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

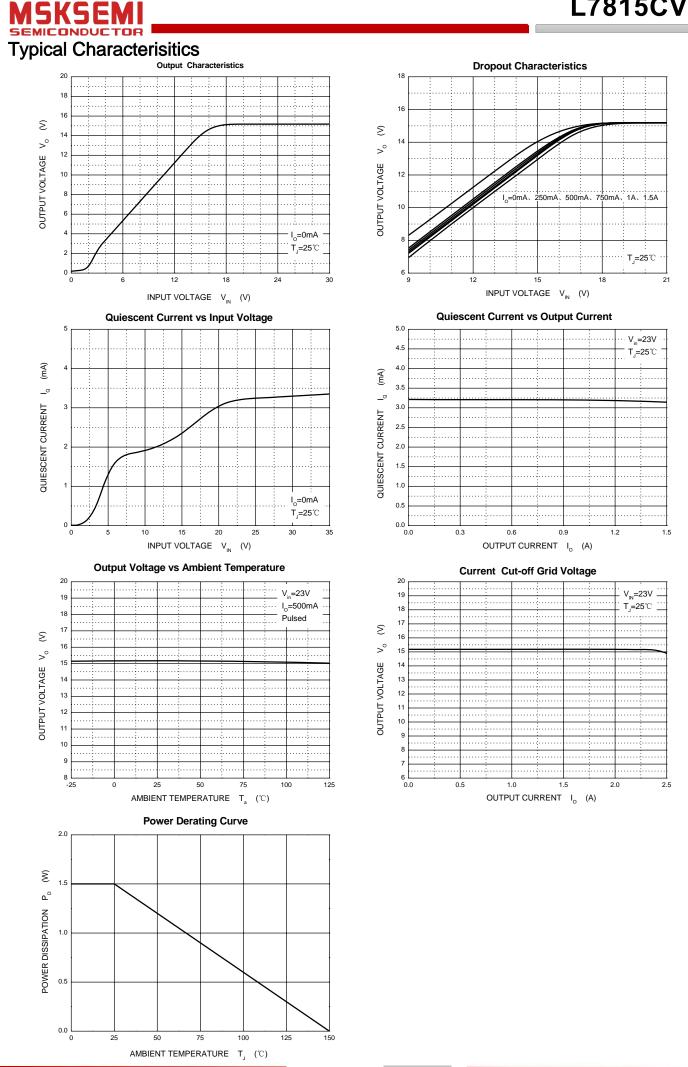
ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE

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

Parameter	Symbol	Test conditions		MIN	TYP	MAX	UNIT
			25 °C	14.4	15	15.6	V
Output voltage	Vo	17.5V≤V _i ≤30V, Io=5mA-1A P≤15W	0−125 °C	14.25	15	15.75	V
Load Regulation	ΔVo	lo=5mA-1.5A	25 °C		12	300	mV
		lo=250mA-750mA	25 °C		4	150	mV
Line regulation	ΔVo	17.5V≤V _i ≤30V	25°C		12	300	mV
		20V≤V i≤26V	25 °C		3	150	mV
Quiescent Current	lq		25 °C		4.3	8	mA
Outerent Ourrent Oberen	Δlq	17.5V≤V i≤30V	0−125℃			1	mA
Quiescent Current Change	Δlq	5mA≤l ₀ ≤1A				0.5	mA
Output voltage drift	∆Vo/∆T	I ₀ =5mA	0−125 °C		-1		mV/℃
Output Noise Voltage	V _N	10Hz≤f≤100KHz	25°C		90		μV
Ripple Rejection	RR	18.5V≤V i≤28.5V,f=120Hz	0−125 °C	54	70		dB
Dropout Voltage	Vd	lo=1A	25°C		2		V
Output resistance	Ro	f=1KHz	25 °C		19		mΩ
Short Circuit Current	lsc		25 °C		230		mA
Peak Current	lpk		25 ℃		2.0		А
TYPICAL APPLICATION	Vi	1 3	Vo	•	•	•	•

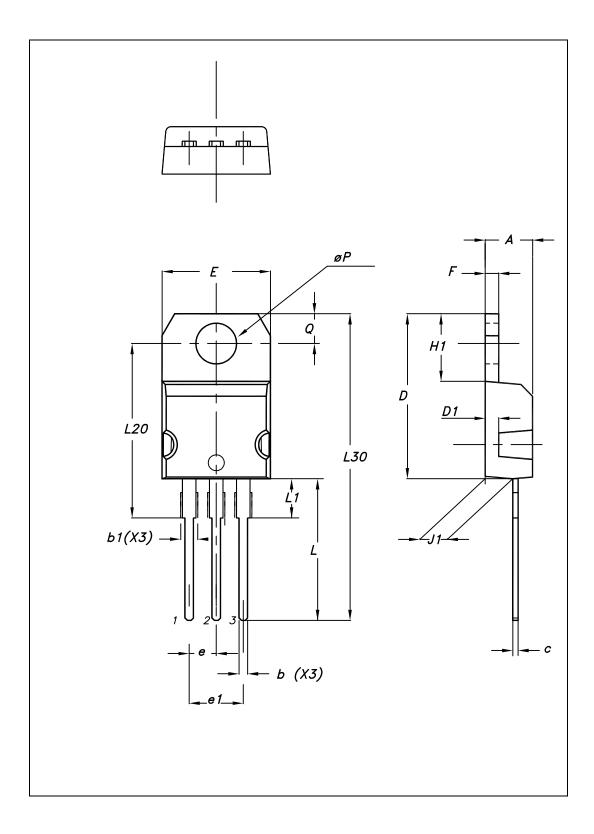








Package mechanical data





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



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