MSKSEMI 美森科













ESD

VS

TSS

MOV

GDT

PIFD

L7808CV(MS)

Product specification





Three-terminal positive voltage regulator

FEATURES

Maximum Output current IOM: 1.5 A

Output voltage Vo: 8V

Continuous total dissipation

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

Reference News

PACKAGE OUTLINE		Marking	
1 2 3	1.IN 2.GND 3.OUT	MSKSEMI L7808CV CHN MS**	

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

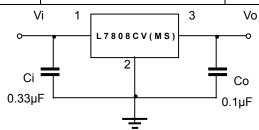
Parameter	Symbol	Value	Unit
Input Voltage	Vi	35	V
Thermal Resistance from Junction to Ambient	R _{θJA}	83.3	°C/W
Thermal Resistance from Junction to Case	$R_{ heta JC}$	8.3	°C/W
Operating Junction Temperature Range	T _{OPR}	0~+150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE

(Vi=14V,lo=500mA, Ci=0.33 μ F, Co=0.1 μ F, unless otherwise specified)

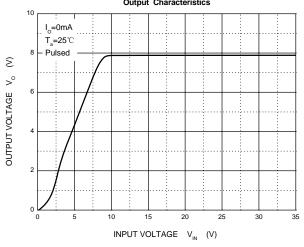
Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
			25℃	7.7	8	8.3	V
Output Voltage	Vo	10.5V≤V _i ≤23V, Io=5mA-1A, P≤15W	0-125℃	7.6	8	8.4	V
Load Regulation	ΔVο	Io=5mA-1.5A	25 ℃		12	160	mV
		lo=250mA-750mA	25 ℃		4	80	mV
Line Regulation	ΔVο	10.5V≤V i≤25V	25℃		6	160	mV
		11V≤V _i ≤17V	25℃		2	80	mV
Quiescent Current	Iq		25 ℃		4.3	8	mA
Quiescent Current Change	Δlq	10.5V≤V _i ≤25V	0-125℃			1	mA
		5mA≤I _O ≤1A	0-125℃			0.5	mA
Output Voltage Drift	$\Delta V_{O}/\Delta T$	I _O =5mA	0-125℃		-0.8		mV/℃
Output Noise Voltage	V _N	10Hz≤f≤100KHz	25℃		52		μV
Ripple Rejection	RR	11.5V≤V _i ≤21.5V,f=120Hz	0-125℃	55	72		dB
Dropout Voltage	Vd	Io=1A	25℃		2		V
Output Resistance	Ro	f=1KH _Z	25℃		10		mΩ
Short Circuit Current	Isc		25℃		450		mA
Peak Current	lpk		25℃		2.0		Α

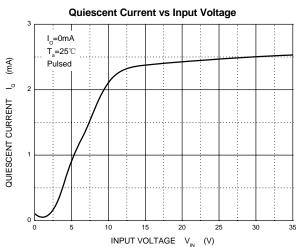


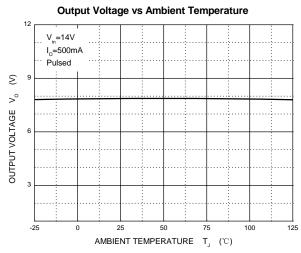


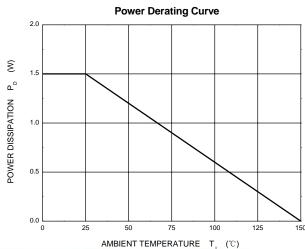


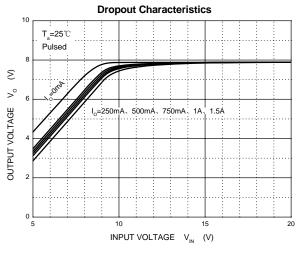
Typical Characterisitics

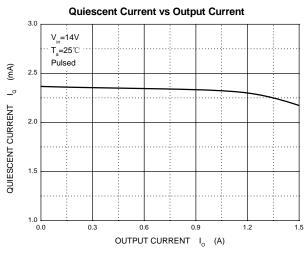


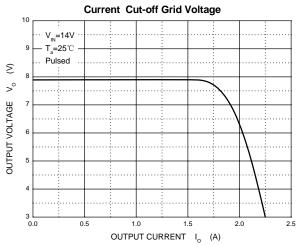






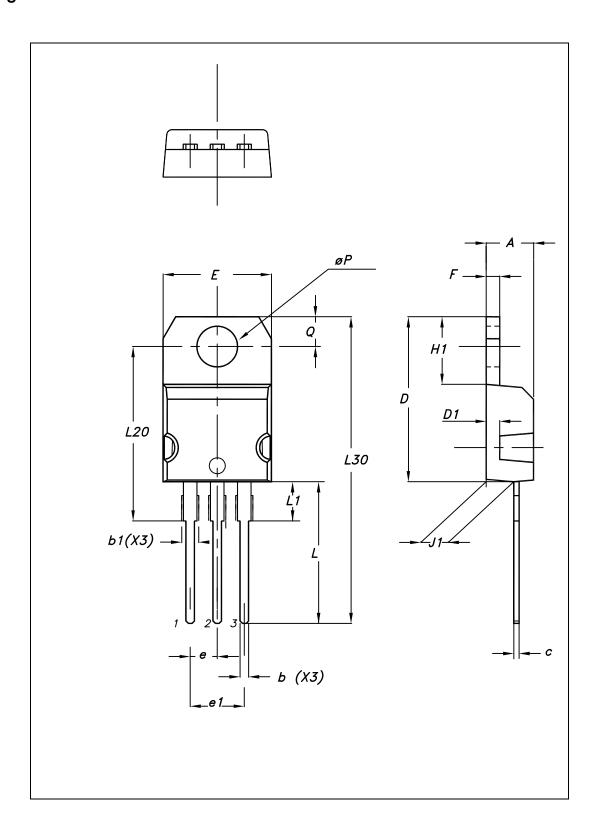








Package mechanical data





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			
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			
ØP	3.75		3.85		
Q	2.65		2.95		

REEL SPECIFICATION

P/N	PKG	QTY
L7808CV(MS)	TO-220	50/One tube 1000/a box of



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