MSKSEMI 美森科













ESD

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TSS

MOV

GDT

PIFD

L7806CV(MS)

Product specification





Three-terminal positive voltage regulator

FEATURES

Maximum Output current IOM: 1.5 A

Output voltage Vo: 6V

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 L7806CV CHN MS**	

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

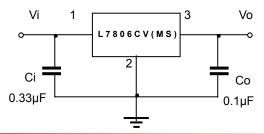
Parameter	Symbol	Value	Unit
Input Voltage	V _i	35	V
Thermal Resistance from Junction to Ambient	R _{0JA}	83.3	°C/W
Thermal Resistance from Junction to Case	R ₀ JC	8.3	°C/W
Operating Junction Temperature Range	T _{OPR}	0~+150	℃
Storage Temperature Range	T _{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE

(Vi=11V,lo=500mA,Ci=0.33 μ F, Co=0.1 μ F, unless otherwise specified)

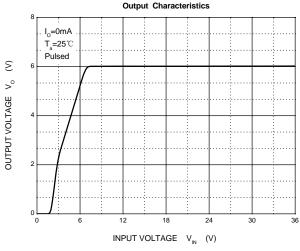
Pa rameter	Symbol	Test conditions		MIN	TYP	MAX	UNIT
			25℃	5.75	6	6.25	V
Output voltage	Vo	8V≤V _i ≤21V, Io=5mA-1A, P≤15W	0-125℃	5.7	6	6.3	V
Load Regulation	△Vo	Io=5mA-1.5A	25℃		14	120	mV
		Io=250mA-750mA	25℃		4	60	mV
Line regulation	△Vo	8V≤V _i ≤25V	25℃		5	120	mV
		9V≤V _i ≤13V	25℃		1.5	60	mV
Quiescent Current	Iq		25℃		4.3	8	mA
Quiescent Current Change	△lq	8V≤V _i ≤25V	0-125℃			1.3	mA
		5mA≤l _O ≤1A	0-125℃			0.5	mA
Output voltage drift	△Vo/△T	I _O =5mA	0-125℃		-0.8		mV/℃
Output Noise Voltage	V _N	10Hz≤f≤100KHz	25℃		45		μV
Ripple Rejection	RR	9V≤V _i ≤19V,f=120Hz	0-125℃	59	75		dB
Dropout Voltage	Vd	Io=1A	25℃		2		٧
Output resistance	Ro	f=1KH _Z	25℃		10		mΩ
Short Circuit Current	Isc		25℃		550		mA
Peak Current	lpk		25℃		2		Α

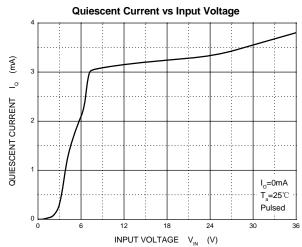
TYPICAL APPLICATION

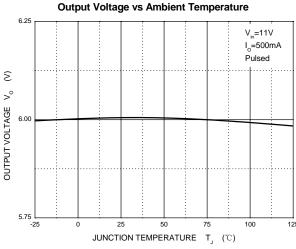


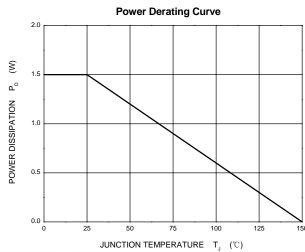


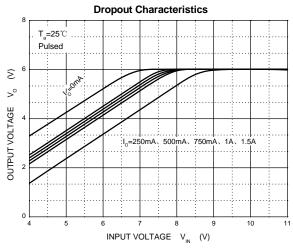
Typical Characterisitics

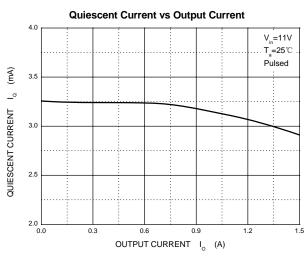


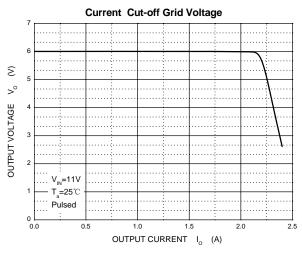






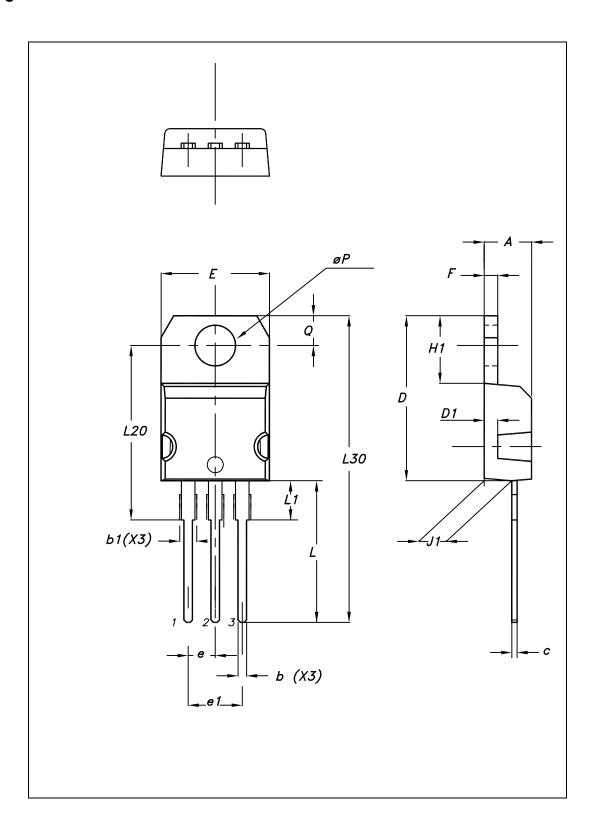








Package mechanical data





Package mechanical data

Di	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
L7806CV(MS)	TO-220	50/One tube 1000/a box of



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