MSKSEMI 美森科













ESD

VS

155

MOV

GDI

PLED

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)

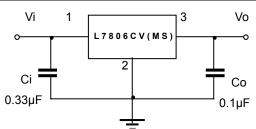
Parameter	Symbol	Value	Unit
Input Voltage	V _i	35	V
Thermal Resistance from Junction to Ambient	$R_{ heta JA}$	83.3	°C/W
Thermal Resistance from Junction to Case	R _{θJC}	8.3	°C/W
Operating Junction Temperature Range	T _{OPR}	0~+150	℃
Storage Temperature Range	T _{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE

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

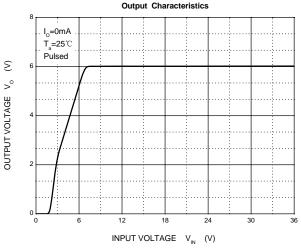
Pa rameter	Symbol	Test conditions		MIN	TYP	MAX	UNIT
			25℃	5.75	6	6.25	V
Output voltage	Vo	8V≤V _i ≤21V, Io=5mA-1A, P≤15W	0-125℃	5.7	6	6.3	V
Load Regulation	△Vo	Io=5mA-1.5A	25℃		14	120	mV
		Io=250mA-750mA	25℃		4	60	mV
Line regulation	△Vo	8V≤V _i ≤25V	25℃		5	120	mV
		9V≤V _i ≤13V	25℃		1.5	60	mV
Quiescent 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

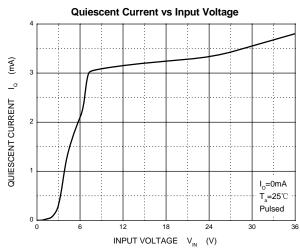
TYPICAL APPLICATION

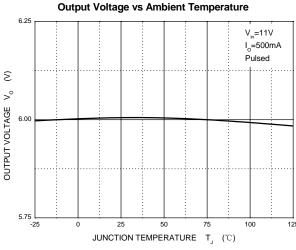


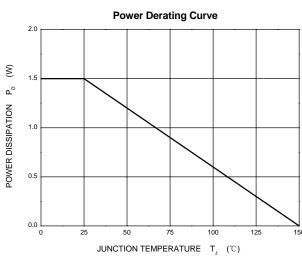


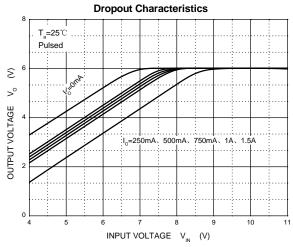
Typical Characterisitics

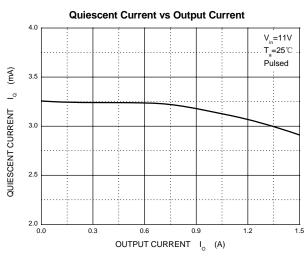


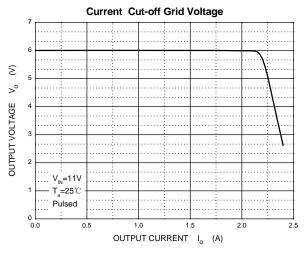






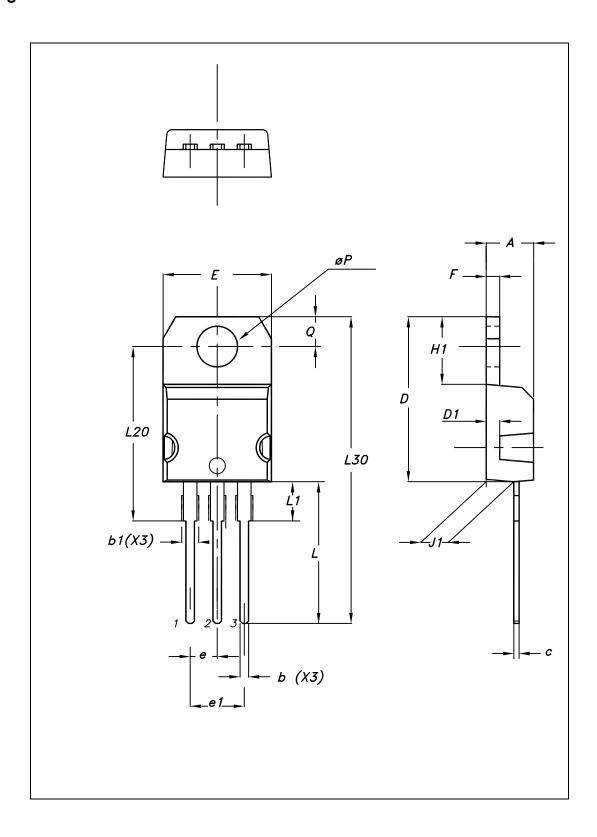








Package mechanical data





Package mechanical data

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



Attention

- Any and all MSKSEMI Semiconductor products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your MSKSEMI Semiconductor representative nearest you before using any MSKSEMI Semiconductor products described or contained herein in such applications.
- MSKSEMI Semiconductor assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all MSKSEMI Semiconductor products described or contained herein.
- Specifications of any and all MSKSEMI Semiconductor products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer'sproducts or equipment.
- MSKSEMI Semiconductor. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with someprobability. It is possiblethat these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents or events cannot occur. Such measures include but are not limited to protective circuits anderror prevention circuitsfor safedesign, redundant design, and structural design.
- In the event that any or all MSKSEMI Semiconductor products (including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from theauthorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of MSKSEMI Semiconductor.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. MSKSEMI Semiconductor believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. Whendesigning equipment, referto the "Delivery Specification" for the MSKSEMI Semiconductor productthat you intend to use.

单击下面可查看定价,库存,交付和生命周期等信息

>>MSKSEMI (美森科)