

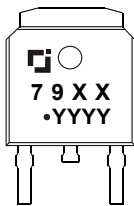
TO-252-2L Plastic-Encapsulate Voltage Regulator

CJ7906 Three-terminal negative voltage regulator

FEATURES

- Maximum output current
 I_{OM} : 1.5 A
- Output voltage
 V_O : -6V
- Continuous total dissipation
 P_D : 1.5 W ($T_a=25^\circ\text{C}$)

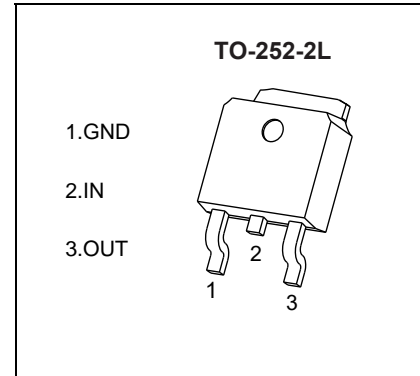
MARKING



79XX: Device code

Solid Dot: Green molding compound device. If none, the normal device

YYYY: Code



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

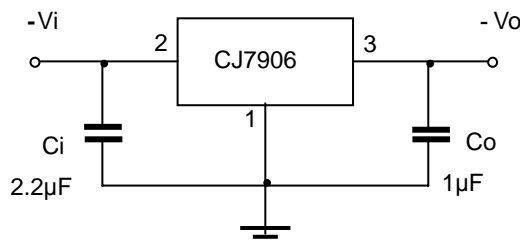
Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Thermal Resistance from Junction to Air	$R_{\theta JA}$	83.3	$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_{OPR}	-40~+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65~+150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=-11\text{V}$, $I_o=500\text{mA}$, $C_i=2.2\mu\text{F}$, $C_o=1\mu\text{F}$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V_o	$T_J=25^\circ\text{C}$	-5.82	-6	-6.18	V
		$-8\text{V}\leq V_i\leq -21\text{V}$, $I_o=5\text{mA}-1\text{A}$	-5.7	-6	-6.3	V
Load Regulation	ΔV_o	$I_o=5\text{mA}-1.5\text{A}$, $T_J=25^\circ\text{C}$		15	120	mV
		$I_o=250\text{mA}-750\text{mA}$, $T_J=25^\circ\text{C}$		5	60	mV
Line Regulation	ΔV_o	$-8\text{V}\leq V_i\leq -25\text{V}$, $T_J=25^\circ\text{C}$		12.5	120	mV
		$-9\text{V}\leq V_i\leq -13\text{V}$, $T_J=25^\circ\text{C}$		4	60	mV
Quiescent Current	I_q	$T_J=25^\circ\text{C}$		1.5	2	mA
Quiescent Current Change	ΔI_q	$-8\text{V}\leq V_i\leq -25\text{V}$			1.3	mA
	ΔI_q	$5\text{mA}\leq I_o\leq 1\text{A}$			0.5	mA
Output Noise Voltage	V_N	$10\text{Hz}\leq f\leq 100\text{KHz}$, $T_J=25^\circ\text{C}$		150		$\mu\text{V}/V_o$
Output Voltage Drift	$\Delta V_o/\Delta T$	$I_o=5\text{mA}$		-0.4		$\text{mV}/^\circ\text{C}$
Ripple Rejection	RR	$-9\text{V}\leq V_i\leq -19\text{V}$, $f=120\text{Hz}$	54	60		dB
Dropout Voltage	V_d	$I_o=1\text{A}$, $T_J=25^\circ\text{C}$		1.1		V
Peak Current	I_{pk}	$T_J=25^\circ\text{C}$		2.1		A

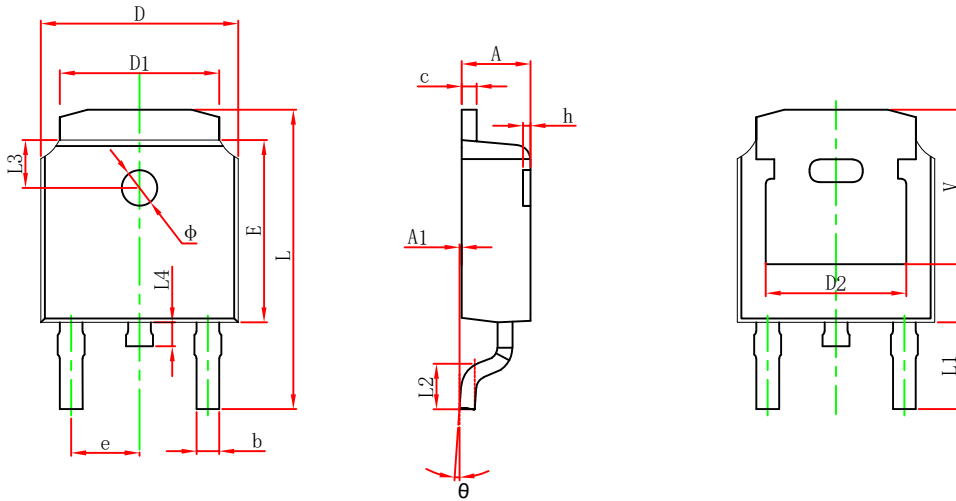
* Pulse test.

TYPICAL APPLICATION



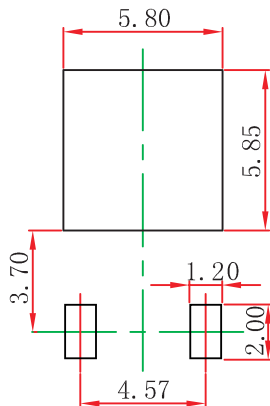
TO-252-2L Mechanical Information

TO-252-2L Outlines Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.200	2.400	0.087	0.094
A1	0.000	0.127	0.000	0.005
b	0.635	0.770	0.025	0.030
c	0.460	0.580	0.018	0.023
D	6.500	6.700	0.256	0.264
D1	5.100	5.460	0.201	0.215
D2	4.830 REF.		0.190 REF.	
E	6.000	6.200	0.236	0.244
e	2.186	2.386	0.086	0.094
L	9.712	10.312	0.382	0.406
L1	2.900 REF.		0.114 REF.	
L2	1.400	1.700	0.055	0.067
L3	1.600 REF.		0.063 REF.	
L4	0.600	1.000	0.024	0.039
phi	1.100	1.300	0.043	0.051
theta	0°	8°	0°	8°
h	0.000	0.300	0.000	0.012
V	5.250 REF.		0.207 REF.	

TO-252-2L Suggest Pad Layout

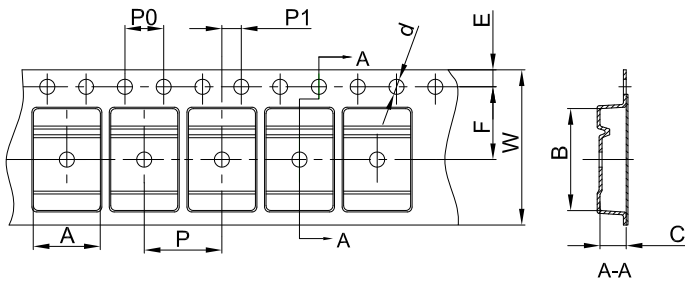


NOTE:

1. Controlling dimension: in millimeters.
2. General tolerance: ±0.05mm.
3. The pad layout is for reference purposes only.

TO-252-2L Tape and Reel Information

TO-252-2L Embossed Carrier Tape



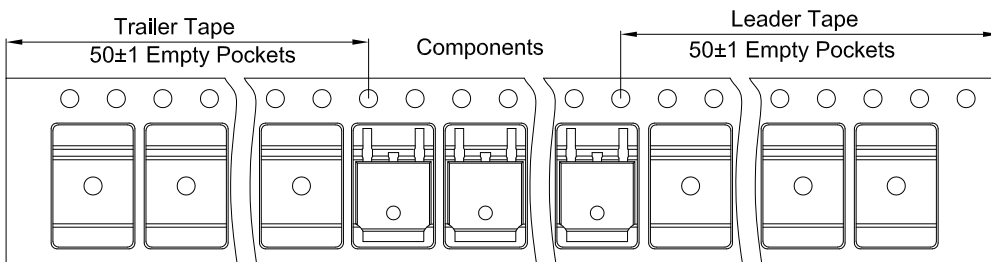
Packaging Description:

TO-252 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 25,00 units per 13" or 33.0 cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

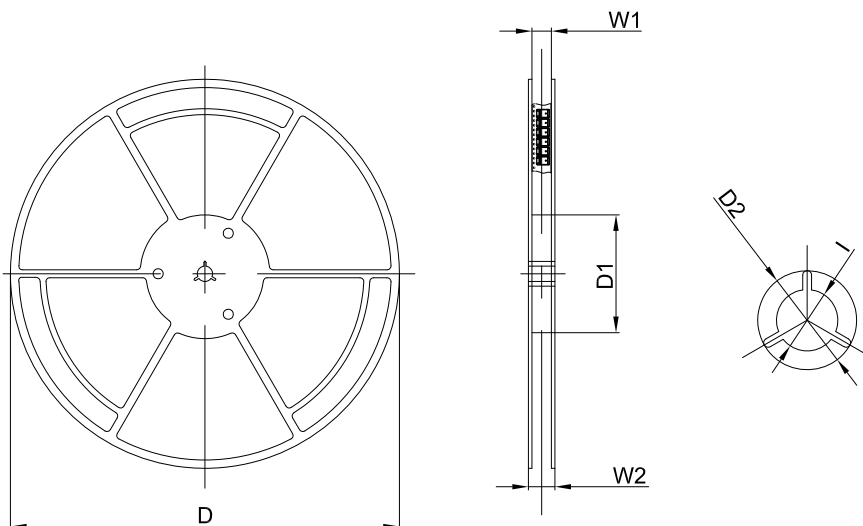
Dimensions are in millimeter

Pkg type	A	B	C	d	E	F	P0	P	P1	W
TO-252	6.90	10.50	2.70	Ø1.55	1.75	7.50	4.00	8.00	2.00	16.00

TO-252 Tape Leader and Trailer



TO-252 Reel



Dimensions are in millimeter

Reel Option	D	D1	D2	W1	W2	I
13" Dia	330.00	100.00	Ø21.00	16.40	21.00	Ø13.00

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
2,500 pcs	13inch	2,500 pcs	340×336×29	25,000 pcs	353×346×365	

DISCLAIMER

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