

JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

TO-252-2L Plastic-Encapsulate Voltage Regulators

CJ7905 Three-terminal negative voltage regulator

FEATURES

Maximum output current

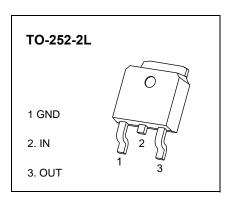
I_{OM}: 1.5 A

Output voltage

V₀:- 5V

Continuous total dissipation

 P_D : 1.25 W (T_a = 25 °C)



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

Parameter	Symbol	Value	Unit
Input Voltage	Vi	-35	V
Thermal Resistance from Junction to Air	$R_{ heta JA}$	100	°C/W
Operating Junction Temperature Range	T _{OPR}	-40~+125	°C
Storage Temperature Range	T _{STG}	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE

(Vi=-10V,lo=500mA,Ci=2.2µF,Co=1µF, unless otherwise specified)

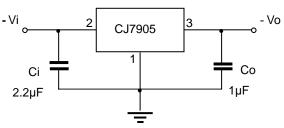
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Output Voltage	Vo	T _J =25℃	-4.85	-5	-5.15	V
		-7V≤V _i ≤-20V, Io=5mA-1A	-4.75	-5	-5.25	٧
Load Pagulation	437	Io=5mA-1.5A ,T _J =25°C		15	100	mV
Load Regulation	ΔVο	Io=250mA-750mA ,T _J =25°C		5	50	mV
Line Degulation	ΔVο	-7V≤V _i ≤-25V ,T _J =25°C		12.5	50	mV
Line Regulation		-8V≤V _i ≤-12V ,T _J =25°C		4	15	mV
Quiescent Current	Iq	T _J =25℃		1.5	2	mA
Quiescent Current Change	Δlq	-7V≤V _i ≤-25V			0.5	mA
Quiescent Current Change	Δlq	5mA≤l _O ≤1A			0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz ,T _J =25°C		125		μV/Vo
Output Voltage Drift	Δ\/o/ΔΤ	I _O =5mA		-0.4		mV/℃
Ripple Rejection	RR	-8V≤V _i ≤-18V,f=120Hz	54	60		dB
Dropout Voltage	Vd	Io=1A ,T _J =25°C		1.1		V
Peak Current	lpk	T _J =25℃		2.1		Α

^{*} Pulse test.

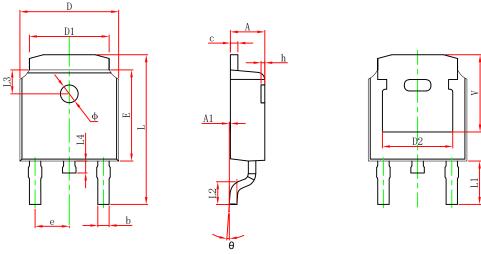
Note1: Stresses beyond those listed under Absolute Maximum Ratings may cause permanent damage to the device. These are stress ratings only, which do not imply functional operation of the device at these or any other conditions beyond those indicated under Recommended Operating Conditions. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

Note2: This IC may be damaged by ESD. Relevant personnel shall comply with correct installation and use specifications to avoid ESD damage to the IC.

TYPICAL APPLICATION

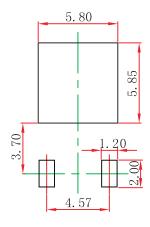


TO-252-2L Package Outline Dimensions



Crombal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α	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	
С	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	
е	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	
Ф	1.100	1.300	0.043	0.051	
θ	0°	8°	0°	8°	
h	0.000	0.300	0.000	0.012	
V	5.250	REF.	0.207 REF.		

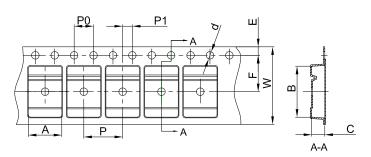
TO-252-2L Suggested Pad Layout



Note:

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

TO-252 Embossed Carrier Tape

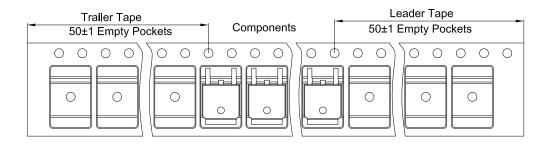


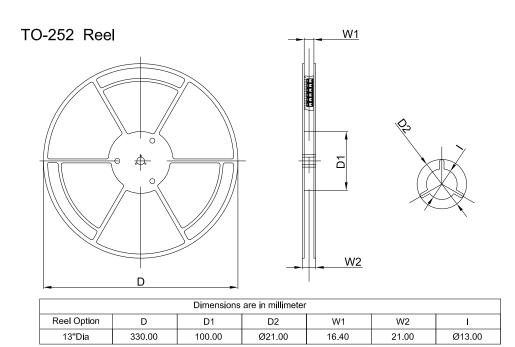
Packaging Description:

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	Α	В	С	d	E	F	P0	Р	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





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	

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