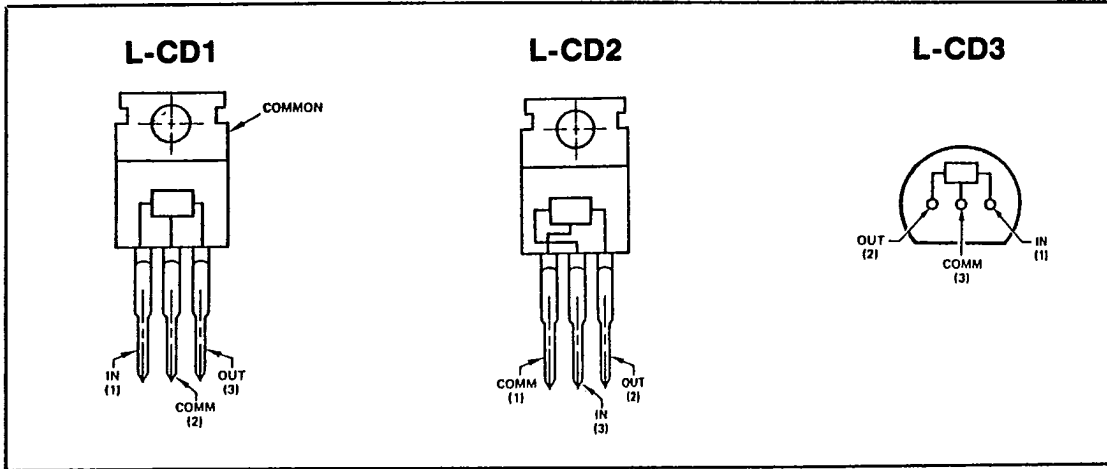


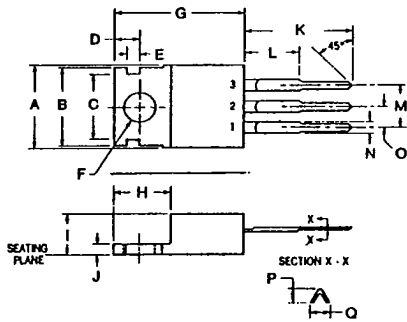
# CODI Semiconductor, Inc.

## LINEAR LOGIC SYMBOLS AND CONNECTION DIAGRAMS



## PACKAGE OUTLINES

### JEDEC TO-220 Outline Plastic Power Package

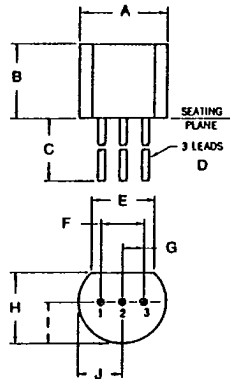


DIM.	INCHES			MILLIMETERS		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A	.395		.410	10.03		10.41
B	.365		.385	9.27		9.77
C	.300		.320	7.62		8.13
D	.100		.120	2.54		3.05
E	.040		.060	1.02		1.52
F	.141		.145	3.58		3.68
G	.575		.600	14.6		15.24
H	.235		.265	5.97		6.73
I	.160		.190	4.06		4.83
J	.020		.055	.508		1.40
K	.500			12.70		
L			.250			6.35
M	.190		.210	4.83		5.33
N	.045		.055	1.05		1.40
O	.095		.105	2.41		2.66
P	.016		.030	.381		.762
Q	.020		.045	.508		1.43

NOTES: See table for dimensions in inches and millimeters  
Center lead is electrical contact with the mounting tab

Package weight is 2.1 grams

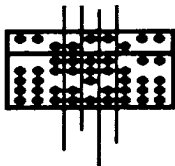
### JEDEC TO-92 Outline Plastic Package



DIM.	INCHES			MILLIMETERS		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A	.175	.205		4.46		5.20
B	.170	.210		4.32		5.33
C	.500			12.70		
D	.016	.019		0.406		0.483
E	.135			.343		
F		.100			2.54	
G		.050			1.27	
H	.125	.165		3.18		4.19
I	.080	.105		2.03		2.67
J	.080	.105		2.03		2.67

NOTES: See table for dimensions in inches and millimeters  
Package material is transfer molded thermosetting plastic  
Package weight is 0.25 grams

**144 Market St., Kenilworth, NJ, USA 07033 • (201) 298-0400**  
TOLL-FREE: 1-800-232-CODI      TELEX: 844-796      FAX NUMBER: 201-298-0477



# CODI Semiconductor, Inc.

## LINEAR INTEGRATED CIRCUITS 3 - TERMINAL VOLTAGE REGULATORS

	1 AMP Pos. 7805-7824	1 AMP Neg. 7905-7924	.5A Pos. 78H05-78H24	.1A Pos. 78L05-78L24
Thermal resistance Rj-c Rj-a	5°C/w 70°C/w		7°C/w 100°C/w	
Power Dissipation	20W		10W	500mW
Temperature range Operating Ambient Operating Junction Storage	-20 to + 80°C -20 to + 125°C -55 to + 125°C		-20 to + 75°C -20 to + 125°C -40 to + 125°C	
Line Regulation (MV) Vo/Vi (%)	2.0		1.0	2.0
Load Regulation (MV) Vo/Io (%)	2.0		1.0	
Logic/Connection diagram	L-CD 1	L-CD 2	L-CD 1	L-CD 3
Package	TO-220		TO-92	

TYPE No.	Nominal OUTPUT Voltage Range (V)	OUTPUT Voltage Range (V)	INPUT Voltage Range (V)	Quiescent Current (mA)	Ripple Rejection (dB) MIN	OUTPUT Noise Voltage (uV)	OUTPUT Voltage Drift (TYP) MV/°C
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**1 AMP POSITIVE**

7805	5.0	4.8-5.2	7.0-35.0	5.3	62	40	0.4
7806	6.0	5.75-6.25	8.0-35.0	4.7	59	45	0.4
7808	8.0	7.7-8.3	10.5-35.0	4.7	56	50	0.4
7812	12.0	11.5-12.5	14.5-35.0	4.7	55	70	0.8
7815	15.0	14.4-15.6	17.5-35.0	4.7	56	85	1.0
7818	18.0	17.3-18.7	21.0-35.0	5.0	53	95	1.2
7824	24.0	23.0-25.0	27.0-40.0	5.0	50	120	1.4

**1 AMP NEGATIVE**

7905	-5.0	-4.8-5.2	-7.0-35.0	1.0	56	100	-0.4
7906	-6.0	-5.75-6.25	-8.0-35.0	1.0	54	150	-0.5
7908	-8.0	-7.7-8.3	-10.5-35.0	1.0	54	200	-0.6
7912	-12.0	-11.5-12.5	-14.5-35.0	1.5	54	300	-0.8
7915	-15.0	-14.4-15.6	-17.5-35.0	1.5	54	375	-1.0
7918	-18.0	-17.3-18.7	-21.0-35.0	1.5	54	450	-1.0
7924	-24.0	-23.0-25.0	-27.0-40.0	1.5	51	600	-1.0

**.5A (500ma) POSITIVE**

78H05	5.0	4.8-5.2	7.0-35.0	4.5	62	40	-1.0
78H06	6.0	5.75-6.25	8.0-35.0	4.6	59	45	-1.0
78H08	8.0	7.7-8.3	10.5-35.0	4.6	56	52	-1.0
78H12	12.0	11.5-12.5	14.5-35.0	4.8	55	75	-1.0
78H15	15.0	14.4-15.6	17.5-35.0	4.8	54	90	-1.0
78H18	18.0	17.3-18.7	21.0-35.0	4.8	53	100	-1.0
78H24	24.0	23.0-25.0	27.0-40.0	5.0	50	170	-1.0

**.1A (100ma) POSITIVE**

78L05	5.0	4.75-5.25	7.0-30.0	6.0*	40	40	-1.0
78L06	6.0	5.95-6.45	8.0-30.0	6.0*	39	50	-1.0
78L08	8.0	7.6-8.4	10.5-30.0	6.0*	39	60	-1.0
78L12	12.0	11.4-12.6	14.5-35.0	6.5*	37	80	-1.5
78L15	15.0	14.3-15.7	17.5-35.0	6.5*	34	90	-1.5
78L18	18.0	17.1-18.9	21.0-40.0	6.5*	33	120	-2.0
78L24	24.0	22.8-25.2	27.0-40.0	7.0*	32	200	-2.0

\*max

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