



TO-92 Encapsulate Three-terminal Voltage Regulator

CJ79L05 Three-terminal negative voltage regulator

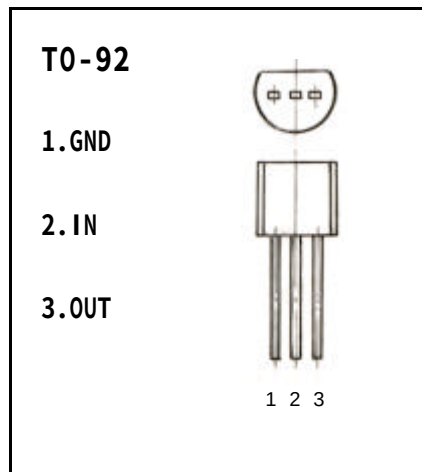
FEATURES

Maximum Output current

I_{OM} : 0.1 A

Output voltage

V_O : -5 V



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

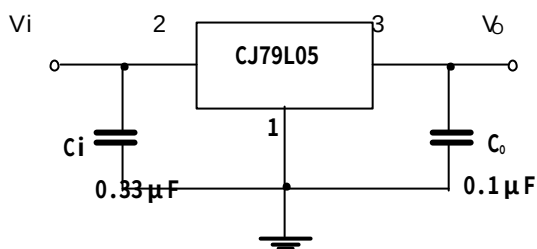
Parameter	Symbol	Value	Units
Input Voltage	V_i	-30	V
Operating Junction Temperature Range	T_{OPR}	0—+125	°C
Storage Temperature Range	T_{STG}	-55—+150	°C

ELECTRICAL CHARACTERISTICS

($V_i = -10V$, $I_o = 40mA$, $0^\circ C < T_j < 125^\circ C$, $C_1 = 0.33 \mu F$, $C_o = 0.1 \mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$V_i = -10V$, $I_o = 40mA$	-4.8	-5.0	-5.2	V
Load Regulation	$V_o - I_o$	$V_i = -10V$, $I_o = 1mA \sim 100mA$		20	60	mV
Line regulation	$V_o - V_i$	$V_i = -7V \sim -20V$, $I_o = 40mA$		15	150	mV
Quiescent Current	I_q	$V_i = -10V$, $I_o = 40mA$			6	mA
Output Noise Voltage	V_n	$10Hz \leq f \leq 100KHz$, $V_i = -10V$, $I_o = 40mA$		40		μV
Ripple Rejection	RR	$V_i = -8V \sim -18V$, $I_o = 40mA$, $e_i = 1V_{P-P}$, $f = 120Hz$	41	49		dB

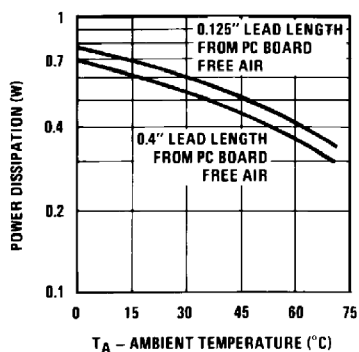
TYPICAL APPLICATION



Typical Characteristics

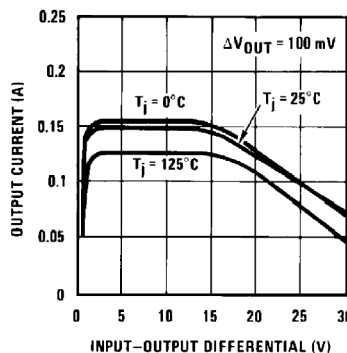
CJ79L05

Maximum Average Power Dissipation (TO-92)



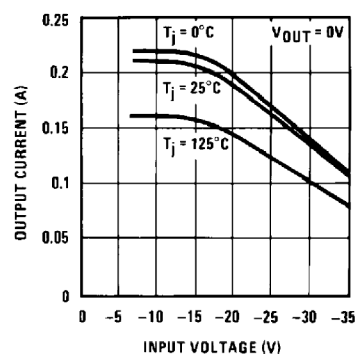
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Peak Output Current



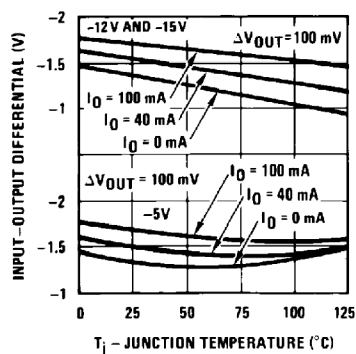
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Short Circuit Output Current



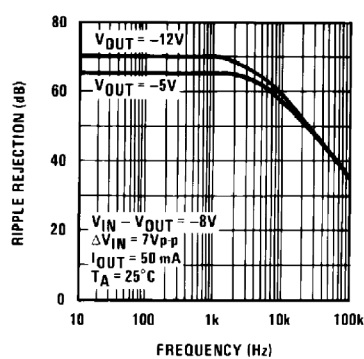
DS007748-13

Dropout Voltage



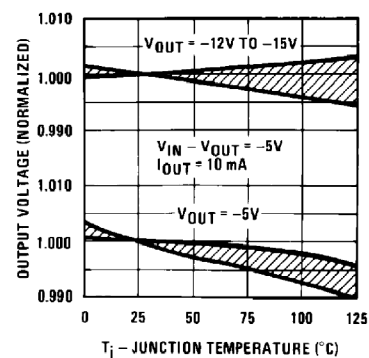
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Ripple Rejection



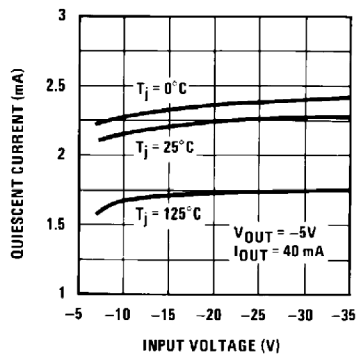
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Output Voltage vs. Temperature (Normalized to 1V @ 25 $^{\circ}\text{C}$)



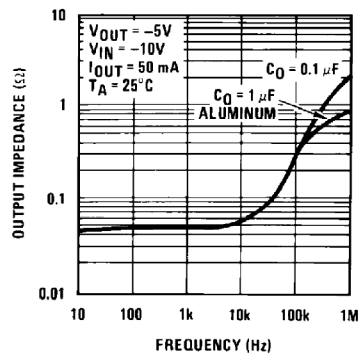
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Quiescent Current



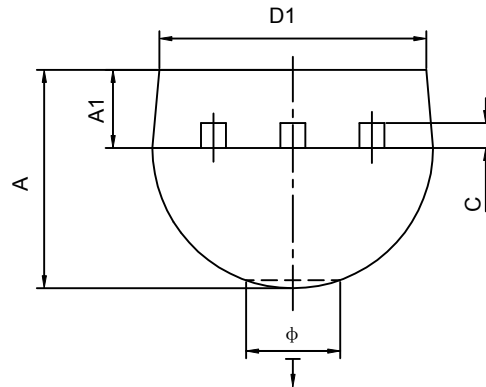
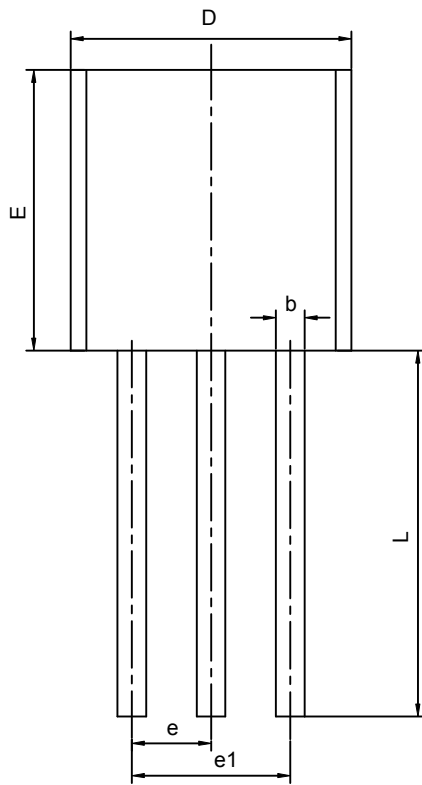
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Output Impedance



DS007748-18

TO-92 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	3.300	3.700	0.130	0.146
A1	1.100	1.400	0.043	0.055
b	0.380	0.550	0.015	0.022
c	0.360	0.510	0.014	0.020
D	4.400	4.700	0.173	0.185
D1	3.430		0.135	
E	4.300	4.700	0.169	0.185
e	1.270TYP		0.050TYP	
e1	2.440	2.640	0.096	0.104
L	14.100	14.500	0.555	0.571
Ö		1.600		0.063
↓	0.000	0.380	0.000	0.015