



**TO-92 Encapsulate Three-terminal Voltage Regulator**

**CJ79L05** Three-terminal negative voltage regulator

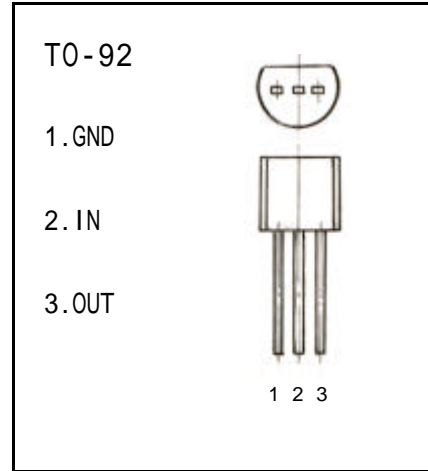
**FEATURES**

Maximum Output current

$I_{OM}$ : 0.1 A

Output voltage

$V_o$ : -5 V



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

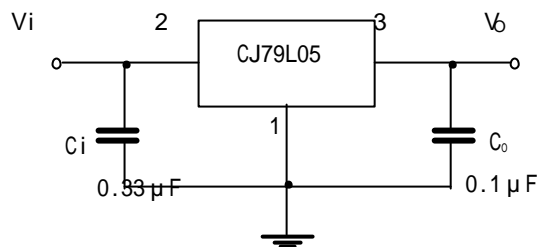
Parameter	Symbol	Value	Units
Input Voltage	$V_i$	-30	V
Operating Junction Temperature Range	$T_{OPR}$	0—+125	
Storage Temperature Range	$T_{STG}$	-55—+150	

**ELECTRICAL CHARACTERISTICS**

( $V_i = -10V, I_o = 40mA, 0 < T_j < 125$ ,  $C_1 = 0.33 \mu F, C_o = 0.1 \mu F$ , 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 f 100KHz, $V_i = -10V, I_o = 40mA$		40		uV
Ripple Rejection	RR	$V_i = -8V \sim -18V, I_o = 40mA, e_i = 1V_{P-P}, f = 120Hz$	41	49		dB

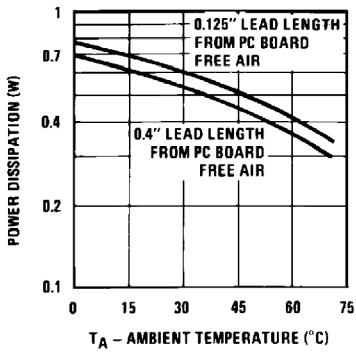
**TYPICAL APPLICATION**



# Typical Characteristics

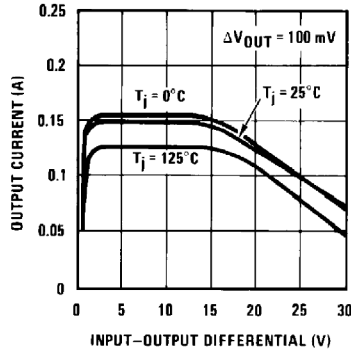
# CJ79L05

**Maximum Average Power Dissipation (TO-92)**



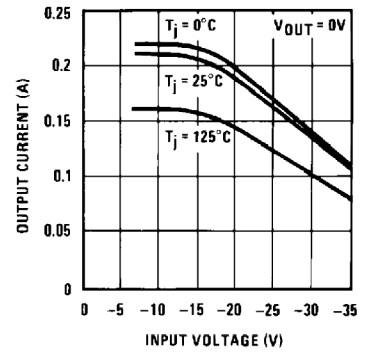
DS007748-11

**Peak Output Current**



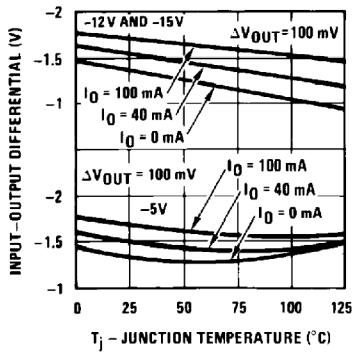
DS007748-12

**Short Circuit Output Current**



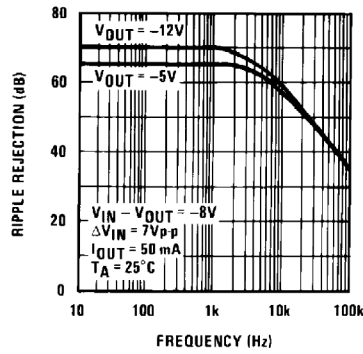
DS007748-13

**Dropout Voltage**



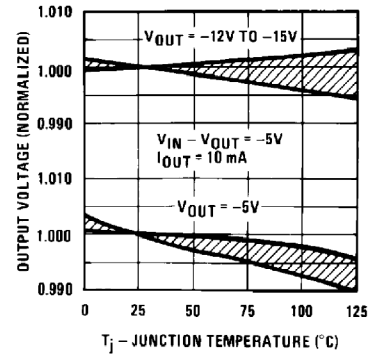
DS007748-14

**Ripple Rejection**



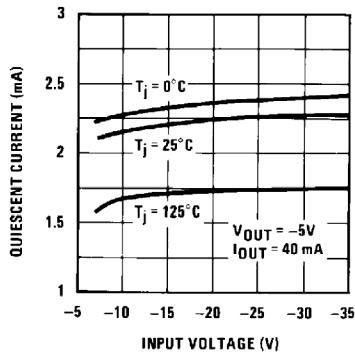
DS007748-15

**Output Voltage vs. Temperature (Normalized to 1V @ 25°C)**



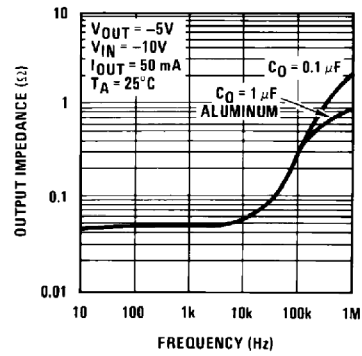
DS007748-16

**Quiescent Current**



DS007748-17

**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