



SOT-89 Encapsulate Three Terminal Voltage Regulator

CJ79L05 Three-terminal negative voltage regulator

FEATURES

Maximum Output current

I_{OM} : 0.1 A

Output voltage

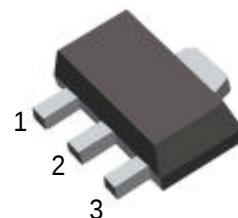
V_O : -5 V

SOT-89

1. GND

2. IN

3. OUT



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

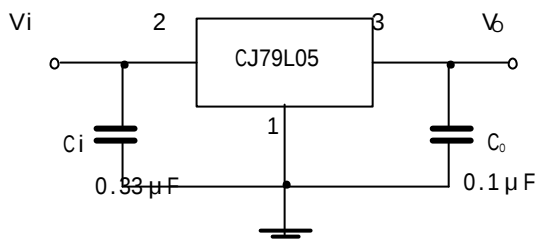
Parameter	Symbol	Value	Units
Input Voltage	V_i	-30	V
Operating Junction Temperature Range	T_{OPR}	0—+125	
Storage Temperature Range	T_{STG}	-55—+150	

ELECTRICAL CHARACTERISTICS

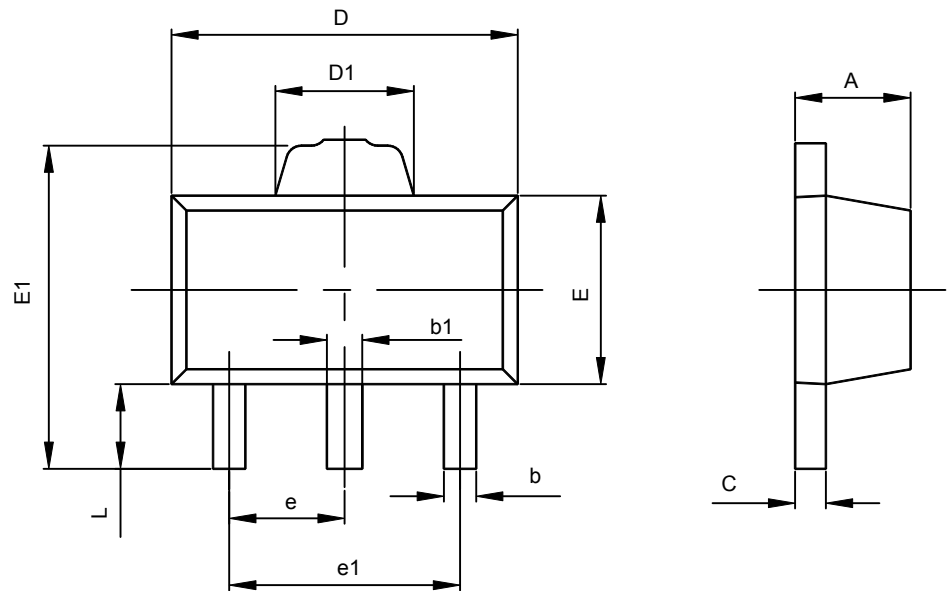
($V_i=10V, I_o=40mA, 0 < T_j < 125$, $C_1=0.33 \mu F, C_o=0.1 \mu F$, unless otherwise specified)

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	$10Hz \leq f \leq 100KHz, V_i=-10V, I_o=40mA$		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



SOT-89-3L PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.360	0.560	0.014	0.022
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.400	1.800	0.055	0.071
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500TYP		0.060TYP	
e1	2.900	3.100	0.114	0.122
L	0.900	1.100	0.035	0.043