



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-89 Encapsulate Three Terminal Voltage Regulator

CJ79L12 Three-terminal negative voltage regulator

FEATURES

Maximum Output current

 $I_{OM}: 0.1\text{ A}$

Output voltage

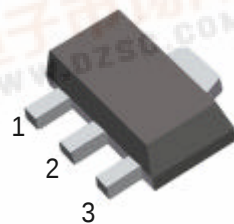
 $V_O: -1\text{ V}$

SOT-89

1. GND

2. IN

3. OUT



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

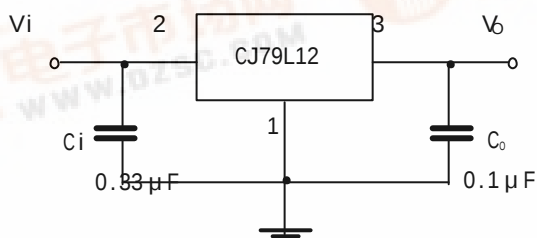
Parameter	Symbol	Value	Units
Input Voltage	V_i	-35	V
Operating Junction Temperature Range	T_{OPR}	0—+125	
Storage Temperature Range	T_{STG}	-55—+150	

ELECTRICAL CHARACTERISTICS

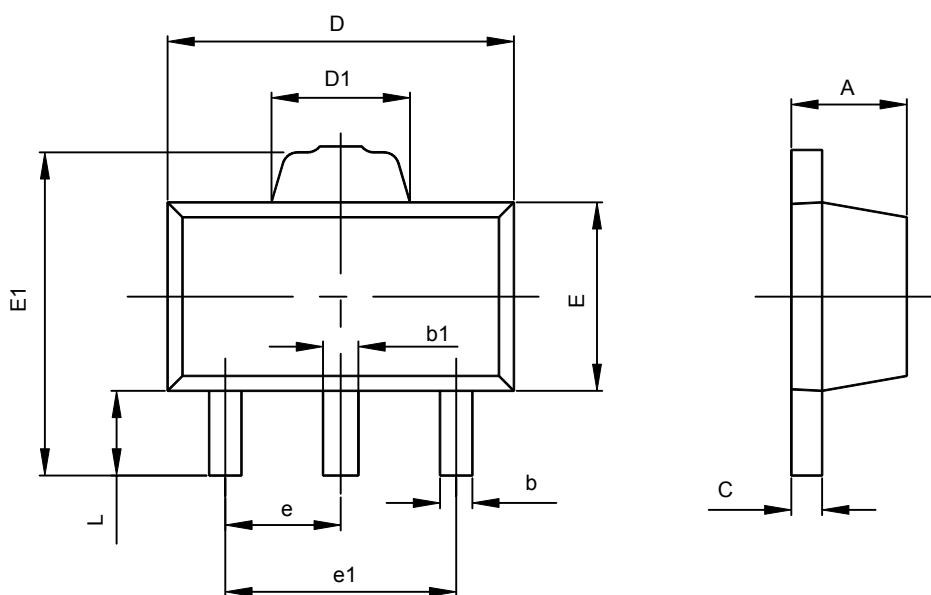
($V_i = -19\text{V}$, $I_o = 40\text{mA}$, $0 < T_j < 125$, $C_1 = 0.33\text{ }\mu\text{F}$, $C_o = 0.1\text{ }\mu\text{F}$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_O	$V_{IN} = -19\text{V}$, $I_o = 40\text{mA}$	-11.5	-12.0	-12.5	V
Line Regulation	$V_O - V_{IN}$	$V_{IN} = -14.5 \sim -27\text{V}$, $I_o = 40\text{mA}$		50	250	mV
Load Regulation	$V_O - I_o$	$V_{IN} = -19\text{V}$, $I_o = 1 \sim 100\text{mA}$		24	100	mV
Quiescent Current	I_Q	$V_{IN} = -19\text{V}$, $I_o = 40\text{mA}$			6.5	mA
Ripple Rejection	RR	$V_{IN} = -15\text{V} \sim -25\text{V}$, $I_o = 40\text{mA}$, $e_{IN} = 1\text{V}_{P-P}$, $f = 120\text{Hz}$	37	42		dB
Output Noise Voltage	V_{NO}	$V_{IN} = -19\text{V}$, $f = 10\text{Hz} \sim 100\text{KHz}$, $I_o = 40\text{mA}$		80		μV

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