

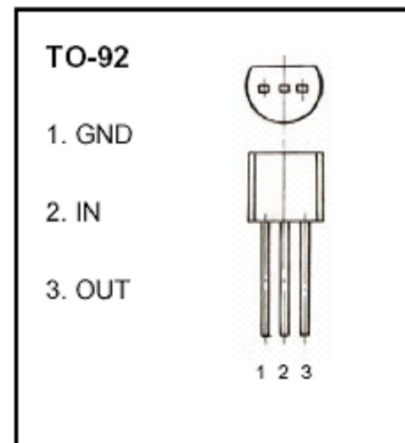
## TO-92 Plastic-Encapsulate Transistors

# 79L12

### CJ79L12 Three-terminal negative voltage regulator

#### FEATURES

Maximum Output current			
$I_{OM}$ :	0.1	A	
Output voltage			
$V_o$ :	-12	V	



**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	°C
Storage Temperature Range	$T_{STG}$	-55~+150	°C

**Electrical Characteristics** ( $V_I=19V, I_o=40mA, 0^\circ C < T_j < 125^\circ C, C_1=0.33\mu F, C_o=0.1\mu F$ , unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	$V_o$	$T_j=25^\circ C$	-11.5	-12	-12.5	V
		$-14.5V \leq V_I \leq -27V, I_o=1mA \sim 40mA$	-11.4	-12	-12.6	V
		$-14.5V \leq V_I \leq -27V, I_o=1mA \sim 70mA$	-11.4	-12	-12.6	V (note)
Load Regulation	$\Delta V_o$	$T_j=25^\circ C, I_o=1mA \sim 100mA$		22	100	mV
		$T_j=25^\circ C, I_o=1mA \sim 40mA$		13	50	mV
Line regulation	$\Delta V_o$	$-14.5V \leq V_I \leq -27V, T_j=25^\circ C$		55	250	mV
		$-16V \leq V_I \leq -27V, T_j=25^\circ C$		49	200	mV
Quiescent Current	$I_q$			4.3	6.5	mA
Quiescent Current Change	$\Delta I_q$	$-16V \leq V_I \leq -27V$			1.5	mA
		$1mA \leq I_o \leq 40mA$			0.1	mA
Output Noise Voltage	$V_N$	10Hz $\leq f \leq$ 100KHz		80		$\mu V$
Ripple Rejection	RR	$-15V \leq V_I \leq -25V, f=120Hz, T_j=25^\circ C$	37	42		dB
Dropout Voltage	$V_d$	$T_j=25^\circ C$		1.7		V

**TYPICAL APPLICATION**

