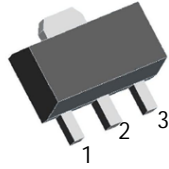




**79L12** Three-terminal negative voltage regulator SOT-89

**FEATURES**

- Maximum output current  
 $I_{OM}: 0.1A$
- Output voltage  
 $V_o: -1.2V$
- Continuous total dissipation  
 $P_D: 0.6W (T_a = 25^\circ C)$



- 1. GND
- 2. IN
- 3. OUT

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

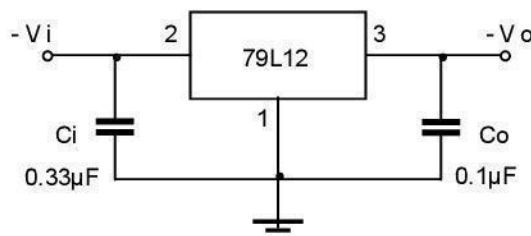
Parameter	Symbol	Value	Unit
Input Voltage	$V_i$	-35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	208.3	$^\circ C/W$
Operating Junction Temperature Range	$T_{OPR}$	0~+150	$^\circ C$
Storage Temperature Range	$T_{STG}$	-65~+150	$^\circ C$

**ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ( $V_i = -19V, I_o = 40mA, C_i = 0.33\mu F, C_o = 0.1\mu F$ , unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output Voltage	$V_o$	$25^\circ C$	-11.52	-12	-12.48	V	
		$-14.5V \leq V_i \leq -27V, I_o = 1mA \sim 40mA$	0-125 $^\circ C$	-11.4	-12	-12.6	V
		$I_o = 1mA \sim 70mA$		-11.4	-12	-12.6	V
Load Regulation	$\Delta V_o$	$I_o = 1mA \sim 100mA$	$25^\circ C$	24	100	mV	
		$I_o = 1mA \sim 40mA$	$25^\circ C$	15	50	mV	
Line Regulation	$\Delta V_o$	$-14.5V \leq V_i \leq -27V$	$25^\circ C$	50	250	mV	
		$-16V \leq V_i \leq -27V$	$25^\circ C$	40	200	mV	
Quiescent Current	$I_q$	$25^\circ C$			6.5	mA	
Quiescent Current Change	$\Delta I_q$	$-16V \leq V_i \leq -27V$	0-125 $^\circ C$		1.5	mA	
	$\Delta I_q$	$1mA \leq I_o \leq 40mA$	0-125 $^\circ C$		0.1	mA	
Output Noise Voltage	$V_N$	10Hz $\leq f \leq$ 100KHz	$25^\circ C$	80		$\mu V/V_o$	
Ripple Rejection	RR	$-15V \leq V_i \leq -25V, f = 120Hz$	0-125 $^\circ C$	37	42	dB	
Dropout Voltage	$V_d$	$25^\circ C$		1.7		V	

\* Pulse test.

**TYPICAL APPLICATION**



Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

# Typical Characteristics

