



# TIGER ELECTRONIC CO.,LTD

## TO-92 Encapsulate Three-terminal voltage regulator

### LM79L12 Three-terminal negative voltage regulator

#### FEATURES

Maximum Output current

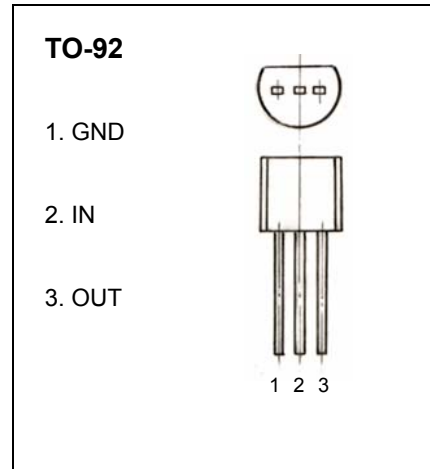
$I_{OM}$ : 0.1 A

Output voltage

$V_o$ : -12 V

Continuous total dissipation

$P_D$ : 0.625 W



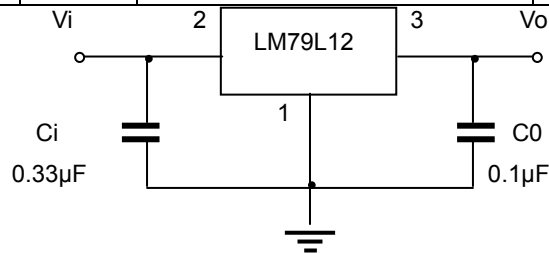
#### ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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 ( $V_i=19V, I_o=40mA, C_i=0.33\mu F, C_o=0.1\mu F$ , unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT	
Output voltage	$V_o$	25°C	-11.5	-12	-12.5	V	
		-14.5V ≤ $V_i$ ≤ -27V, $I_o=1mA \sim 40mA$	0-125°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°C	24	100	mV	
		$I_o=1mA \sim 40mA$	25°C	15	50	mV	
Line regulation	$\Delta V_o$	-14.5V ≤ $V_i$ ≤ -27V	25°C	50	250	mV	
		-16V ≤ $V_i$ ≤ -27V	25°C	40	200	mV	
Quiescent Current	$I_q$		25°C		6.5	mA	
Quiescent Current Change	$\Delta I_q$	-16V ≤ $V_i$ ≤ -27V	0-125°C		1.5	mA	
	$\Delta I_q$	1mA ≤ $I_o$ ≤ 40mA	0-125°C		0.1	mA	
Output Noise Voltage	$V_N$	10Hz ≤ $f$ ≤ 100KHz	25°C	80		uV	
Ripple Rejection	RR	-15V ≤ $V_i$ ≤ -25V, $f=120Hz$	0-125°C	37	42	dB	
Dropout Voltage	$V_d$		25°C	1.7		V	

#### 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

# LM79LXX

