



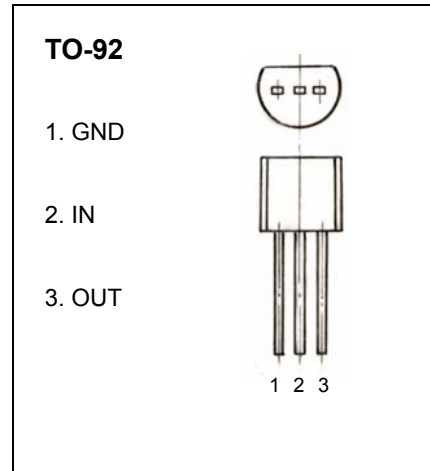
TIGER ELECTRONIC CO.,LTD

TO-92 Encapsulate Three-terminal Voltage Regulator

LM79L05 Three-terminal negative voltage regulator

FEATURES

Maximum Output current
 I_{OM} : 0.1 A
 Output voltage
 V_o : -5 V
 Continuous total dissipation
 P_D : 0.625 W



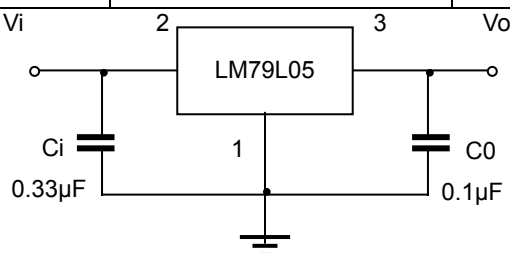
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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

ELECTRICAL CHARACTERISTICS ($V_i=-10V, I_o=40mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT	
Output voltage	V_o	25°C	-4.8	-5.0	-5.2	V	
		0-125°C	$-7V \leq V_i \leq -20V, I_o=1mA \sim 40mA$	-4.75	-5.0	-5.25	V
			$I_o=1mA \sim 70mA$	-4.75	-5.0	-5.25	V
Load Regulation	ΔV_o	$I_o=1mA \sim 100mA$	25°C	20	60	mV	
		$I_o=1mA \sim 40mA$	25°C	10	30	mV	
Line regulation	ΔV_o	$-7V \leq V_i \leq -20V$	25°C	15	150	mV	
		$-8V \leq V_i \leq -20V$	25°C	12	100	mV	
Quiescent Current	I_q	25°C			6	mA	
Quiescent Current Change	ΔI_q	$-8V \leq V_i \leq -20V$	0-125°C		1.5	mA	
	ΔI_q	$1mA \leq V_i \leq 40mA$	0-125°C		0.1	mA	
Output Noise Voltage	V_N	10Hz ≤ f ≤ 100KHz	25°C	40		uV	
Ripple Rejection	RR	$-8V \leq V_i \leq -18V, f=120Hz$	0-125°C	41	49	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

