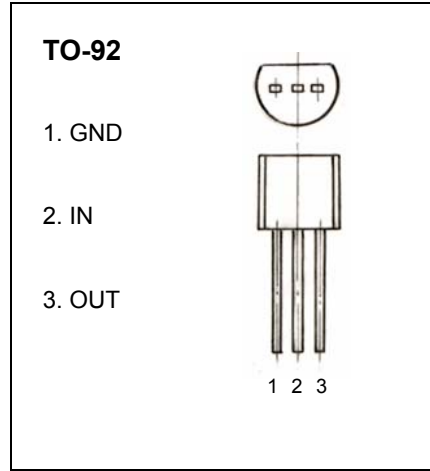


深圳市晶泰源电子有限公司

WL79L05 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



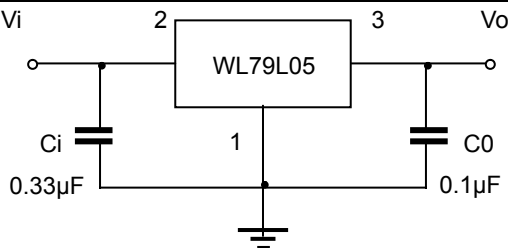
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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 AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=-10V, I_o=40mA, C_i=0.33\mu F, C_o=0.1\mu F$, 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 ≤ V_i ≤ -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 ≤ V_i ≤ -20V	25°C	15	150	mV	
		-8V ≤ V_i ≤ -20V	25°C	12	100	mV	
Quiescent Current	I_q	25°C			6	mA	
Quiescent Current Change	ΔI_q	-8V ≤ V_i ≤ -20V	0-125°C		1.5	mA	
	ΔI_q	1mA ≤ V_i ≤ 40mA	0-125°C		0.1	mA	
Output Noise Voltage	V_N	10Hz ≤ f ≤ 100KHz	25°C	40		uV	
Ripple Rejection	RR	-8V ≤ V_i ≤ -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.