SHENZHEN LONG JING MICRO-ELECTRONICS CO., LTD.

SOT-89 Plastic-Encapsulate Voltage Regulators

79L05

Three-terminal negative voltage regulator

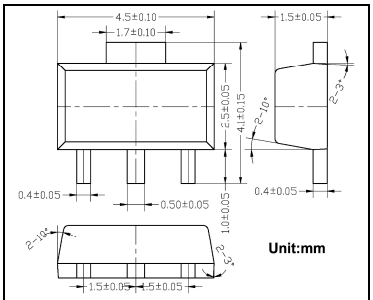
Features:

Maximum Output current I_O: 0.1A

Output voltage V_O: -5V

Continuous total dissipation

P_D: 0.5W (T_a = 25°C)



1. GND
2. IN
3. OUT

Absolute Maximum Ratings (Operating temperature range applies unless otherwise specified)

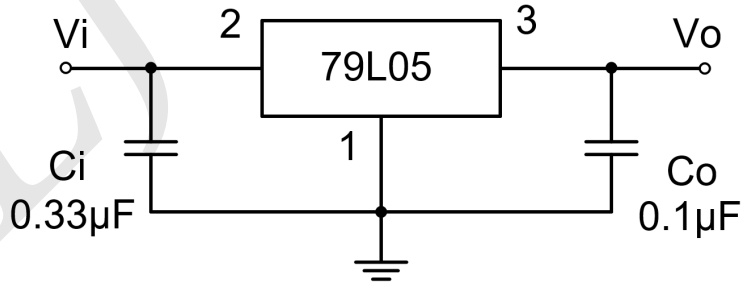
Symbol	Parameter	Value	Unit
V_i	Input Voltage	-30	V
T_{OPR}	Operating Junction Temperature Range	-40 to +125	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

Electrical Characteristics at Specified Virtual Junction Temperature

(Vi=-10V, Io=40mA, Ci=0.33μF, Co=0.1μF, unless otherwise specified)

Symbol	Parameter	Test conditions		Min	Typ	Max	Unit
Vo	Output Voltage		25°C	-4.8	-5.0	-5.2	V
		-7V≤ Vi ≤-20V, I_O=1mA ~ 40mA	0-125°C	-4.75	-5.0	-5.25	V
		I_O=1mA ~ 70mA		-4.75	-5.0	-5.25	V
ΔVo	Load Regulation	I_O=1mA ~ 100mA	25°C		20	60	mV
		I_O=1mA ~ 40mA	25°C		10	30	mV
ΔVo	Line Regulation	-7V≤ Vi ≤-20V	25°C		15	150	mV
		-8V≤ Vi ≤-20V	25°C		12	100	mV
Iq	Quiescent Current		25°C			6	mA
ΔIq	Quiescent Current Change	-8V≤ Vi ≤-20V	0-125°C			1.5	mA
		1mA≤I_O≤40mA	0-125°C			0.1	mA
VN	Output Noise Voltage	f =10Hz to 100KHz	25°C		40		μV
RR	Ripple Rejection	f =120Hz,-8V≤ V_i ≤ -18V	0-125°C	41	49		dB
Vd	Dropout Voltage		25°C		1.7		V

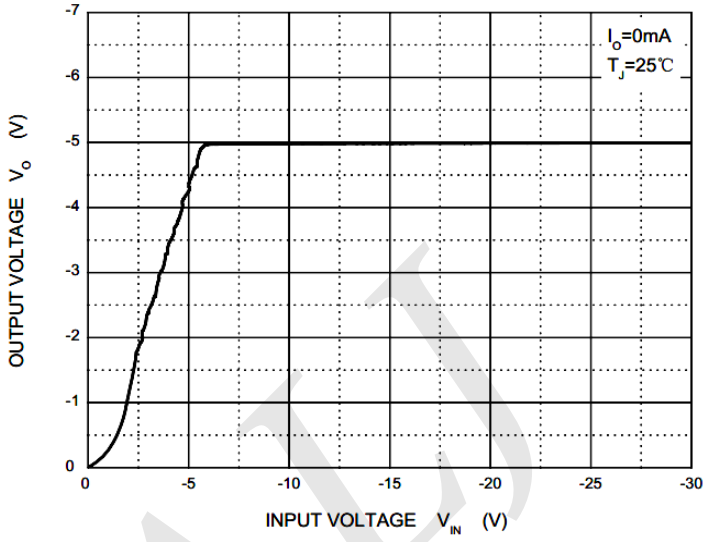
Typical Application



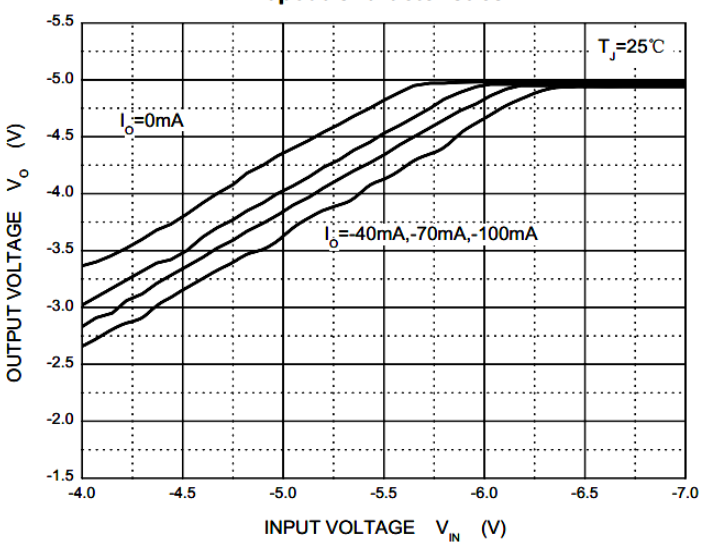
Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as Possible to the regulators.

Typical Characteristics

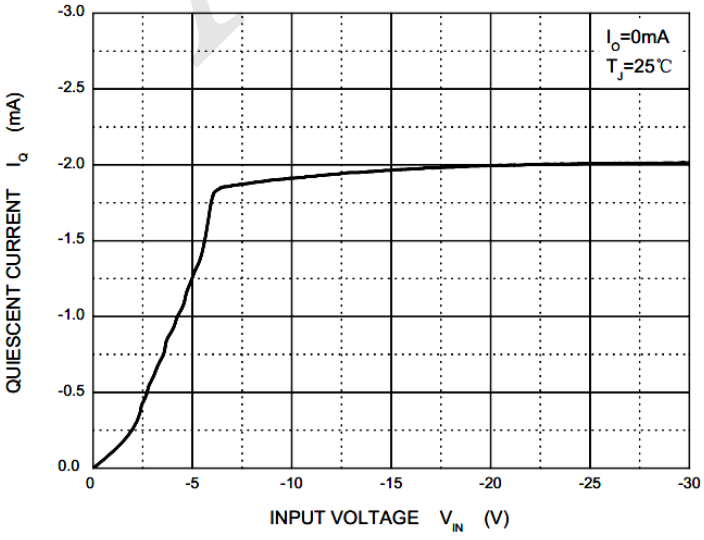
Output Characteristics



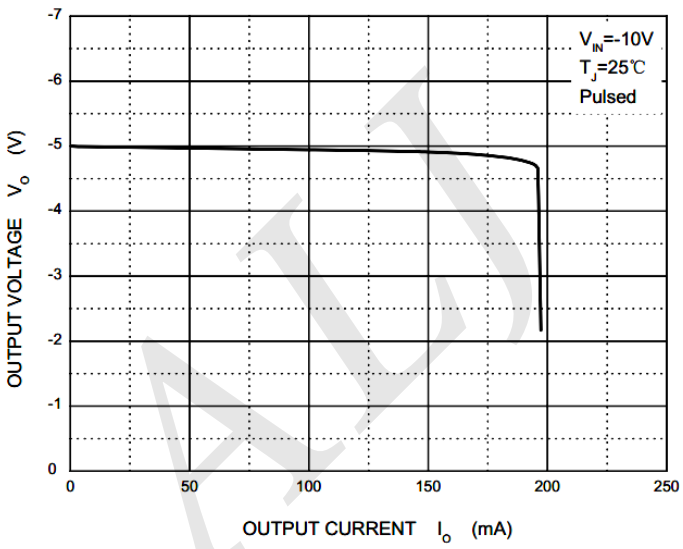
Dropout Characteristics



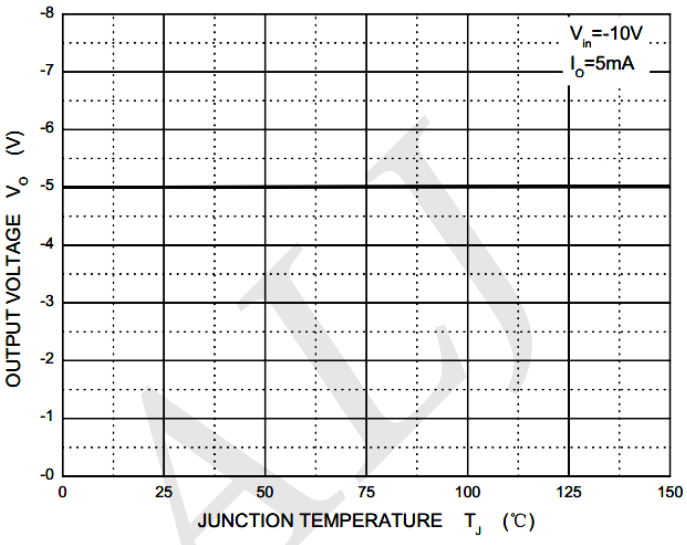
Quiescent Current vs Input Voltage



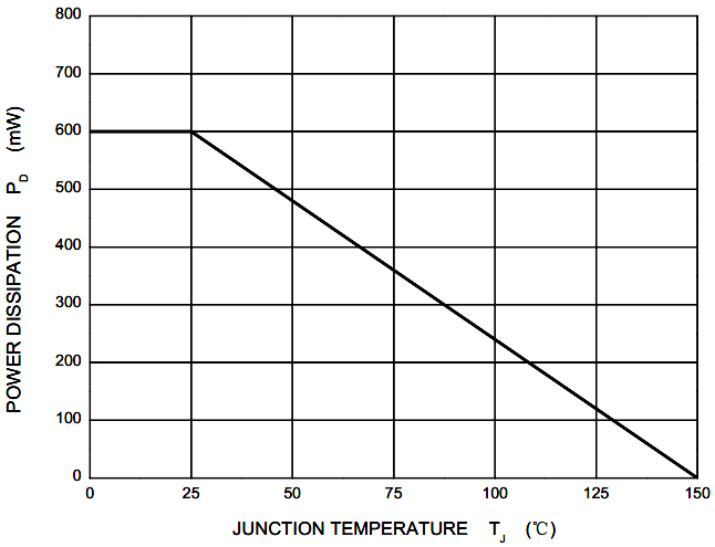
Current Cut-off Grid Voltage



Output Voltage vs Junction Temperature



Power Derating Curve



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