

# Negative Voltage Regulator 3 Terminal

multicomp **PRO**

RoHS  
Compliant



## Features

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

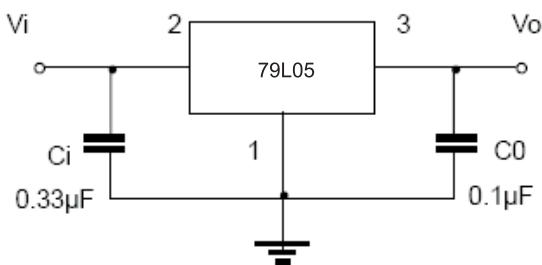
## Absolute Maximum Ratings $T_a = 25^\circ C$

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

## Electrical Characteristics ( $V_i=-10V$ , $I_o=40mA$ , $0^\circ C < T_j < 125^\circ C$ , $C_i=0.33\mu F$ , $C_o=0.1\mu F$ , unless otherwise specified)

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Output voltage	$V_o$	$T_j=25^\circ C$	-4.8	-5	-5.2	V
		$-7V \leq V_i \leq -20V$ , $I_o=1mA-40mA$	-4.75		-5.25	
		$I_o=1mA-70mA$				
Load regulation	$\Delta V_o$	$T_j=25^\circ C$ , $I_o=1mA-100mA$		11	60	mV
		$T_j=25^\circ C$ , $I_o=1mA-40mA$		5	30	
Line regulation	$\Delta V_o$	$-7V \leq V_i \leq -20V$ , $T_j=25^\circ C$		32	150	mV
		$-8V \leq V_i \leq -20V$ , $T_j=25^\circ C$		26	100	
Quiescent current	$I_q$	$T_j=25^\circ C$ ,		3.8	6	mA
Quiescent current change	$\Delta I_q$	$0^\circ C < T_j < 125^\circ C$ , $-8V \leq V_i \leq -20V$			1.5	
		$0^\circ C < T_j < 125^\circ C$ , $1mA \leq I_o \leq 40V$			0.1	
Output noise voltage	$V_N$	$10Hz \leq f \leq 100KHz$ , $T_j=25^\circ C$		42		$\mu V$
Ripple rejection	$R_R$	$-8V \leq V_i \leq -189V$ , $f=120Hz$	34	49		dB
Dropout voltage	$V_d$	$T_j=25^\circ C$		1.7		V

## Typical Application



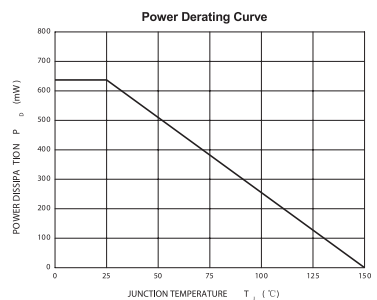
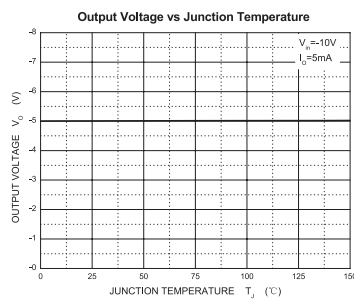
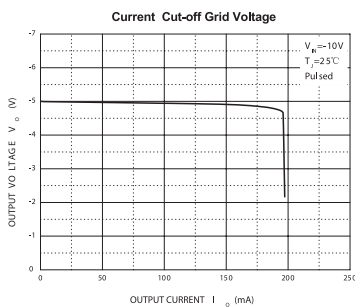
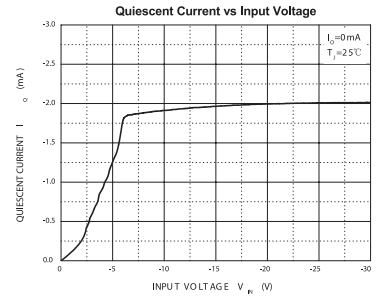
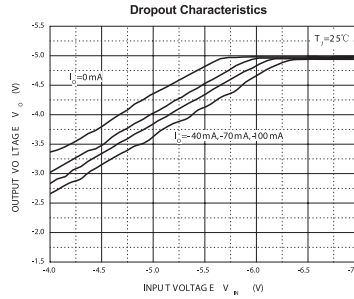
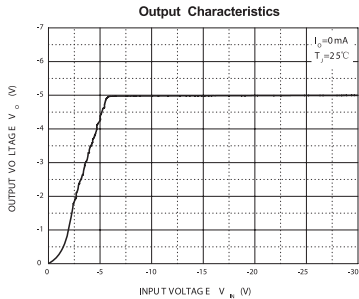
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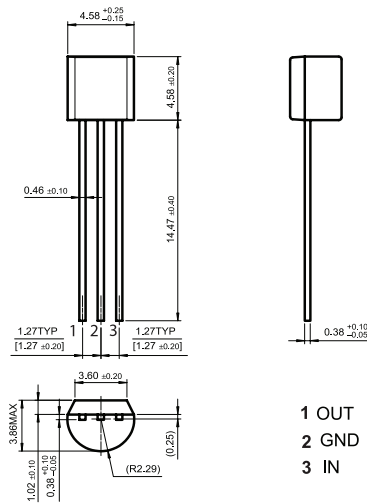
# Negative Voltage Regulator 3 Terminal

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## Typical Characteristics



## Diagram



- 1 OUT
- 2 GND
- 3 IN

Dimensions : Millimetres

## Part Number Table

Description	Part Number
Negative Voltage Regulator, Fixed, -5V, 0.1A	79L05

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