Negative Voltage Regulator
3 Terminal

multicomp PRO

RoHS Compliant

Features

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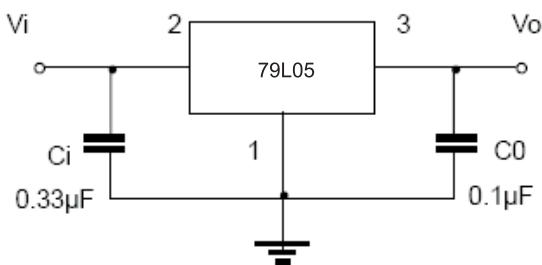- Continuous total dissipation:P_D:=0.625W

Absolute Maximum Ratings Ta = 25°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 (Vi=-10V, Io=40mA, 0°C <Tj<125°C, Ci=0.33µF, Co=0.1µF, unless otherwise specified)

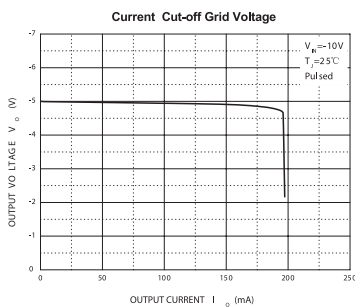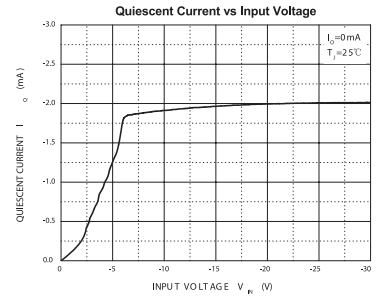| Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Output voltage	V_O	Tj=25°C	-4.8	-5	-5.2	V
		-7V≤V_I≤-20V, Io=1mA-40mA	-4.75		-5.25	
		Io=1mA-70mA				
Load regulation	△V_O	Tj=25°C, Io=1mA-100mA		11	60	mV
		Tj=25°C, Io=1mA-40mA		5	30	
Line regulation	△V_O	-7V≤V_I≤-20V, Tj=25°C		32	150	
		-8V≤V_I≤-20V, Tj=25°C		26	100	
Quiescent current	I_Q	Tj=25°C,		3.8	6	mA
Quiescent current change	△I_Q	0°C<Tj<125°C, -8V≤V_I≤-20V			1.5	
		0°C<Tj<125°C, 1mA≤Io≤40V			0.1	
Output noise voltage	V_N	10Hz≤f≤100KHz, Tj=25°C		42		µV
Ripple rejection	R_R	-8V≤V_I≤-189V, f=120Hz	34	49		dB
Dropout voltage	V_d	Tj=25°C		1.7		V

Typical Application
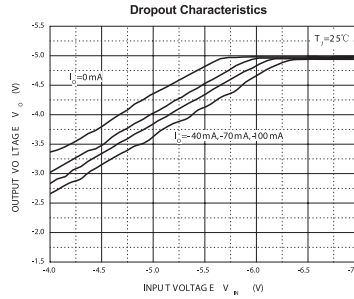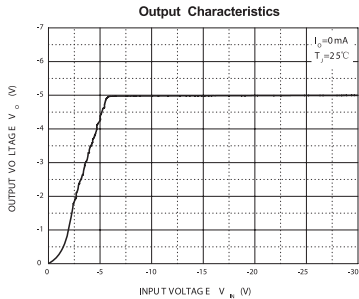
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Typical Characteristics

Output Characteristics

Dropout Characteristics

Quiescent Current vs Input Voltage

Current Cut-off Grid Voltage

Output Voltage vs Junction Temperature

Power Derating Curve
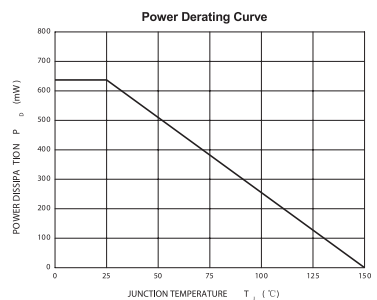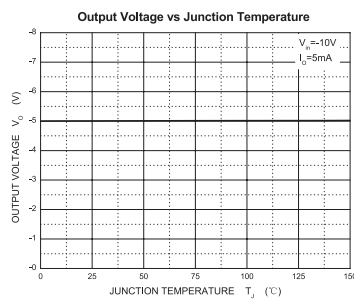
Diagram
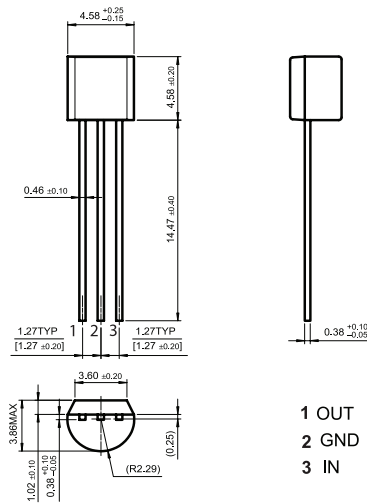
1 OUT
2 GND
3 IN

Dimensions : Millimetres

Part Number Table

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

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