

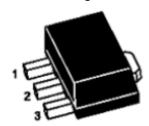
Continental Device India Pvt. Limited

An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company



SOT-89 Plastic-Encapsulate Voltage Regulators

Three-terminal negative voltage regulator



LM79L05A

SOT-89 Surface Mount Plastic Package

Pin Confugration

- 1.Ground
- 2. In
- 3.Out

Features

- 1. Maximum Output current IO: 0.1A
- 2. Output voltage V_O: -5V
- 3. Continuous total dissipation P_D : 0.625W ($T_a = 25$ °C)

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

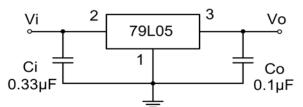
DESCRIPTION	SYMBOL	VALUE	UNIT
Input Voltage	V_{i}	-30	V
Thermal Resistance from Junction	$R_{\theta JA}$	200	°C/W
Operating Junction Temperature	T _{OPR}	0 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Electrical Characteristics at Specified Virtual Junction Temperature

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

DESCRIPTION	SYMBOL	Test Conditions		VALUE			l lmi4
DESCRIPTION				Min	Тур	Max	Unit
Output Voltage	V _o	25°C		-4.8	-5.00	-5.20	V
		-7V≤ Vi ≤-20V, I _O =1mA to 40mA	0-125°C	-4.75	-5.00	-5.25	V
		I _O =1mA to 70mA	0-125°C	-4.75	-5.00	-5.25	V
Load Regulation	ΔV _o	I _O =1mA ~ 100mA	25°C		20	60	mV
		I _O =1mA ~ 40mA	25°C		10	30	mV
Line Regulation	ΔV _o	-7V≤ Vi ≤-20V	25°C		15	150	mV
		-8V≤ Vi ≤-20V	25°C		12	100	mV
Quiescent Current	l _q		25°C			6	mA
Quiescent Current Change	Δlq	-8V≤ Vi ≤-20V	0-125°C			1.5	mA
		1mA≤l _O ≤40mA	0-125°C			0.1	mA
Output Noise Voltage	VN	f =10Hz to 100KHz	25°C		40		μV
Ripple Rejection	RR	f =120Hz,-8V≤ Vi ≤ -18V	0-125°C	41	49	·	dB
Dropout Voltage	Vd		25°C		1.7	·	V

Typical Application



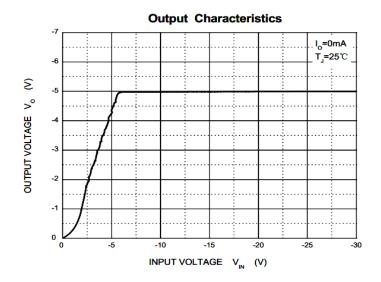
Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as Possible to the regulators.

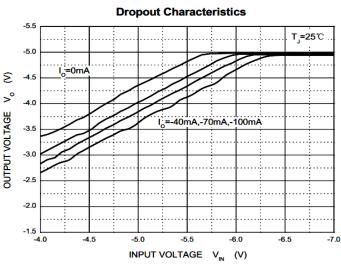


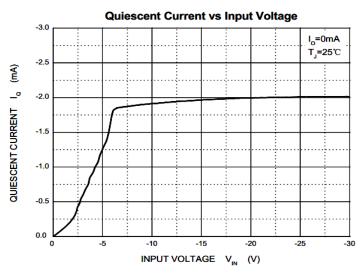
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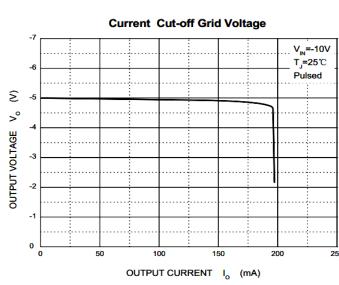


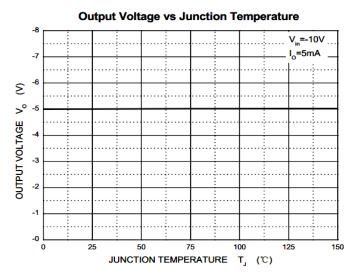
Typical Characteristics

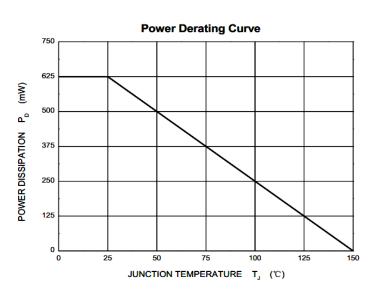










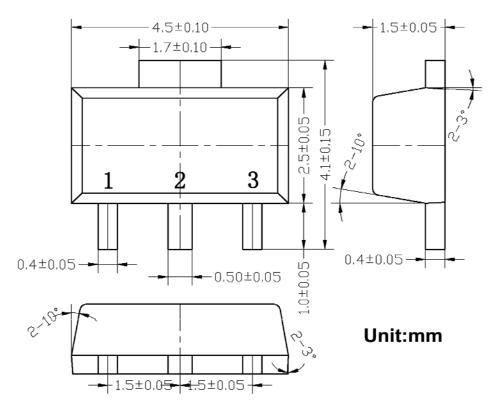




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Package Details



- 1 Ground
- 2 IN
- 3 OUT



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Customer Notes

Component Disposal Instructions

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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