

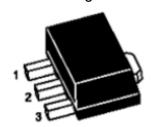
## Continental Device India Pvt. Limited

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<sub>O</sub>: -5V
- 3. Continuous total dissipation  $P_D$ : 0.625W ( $T_a = 25$ °C)

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

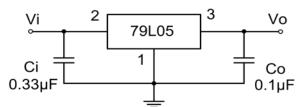
DESCRIPTION	SYMBOL	VALUE	
Input Voltage	$V_{i}$	-30	V
Thermal Resistance from Junction	$R_{\theta JA}$	200	°C/W
Operating Junction Temperature	T <sub>OPR</sub>	0 to +150	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C

### **Electrical Characteristics at Specified Virtual Junction Temperature**

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

DECODIDEION	OVMDOL	Test Conditions		VALUE			11'4
DESCRIPTION	SYMBOL			Min	Тур	Max	Unit
Output Voltage			25°C	-4.8	-5.00	-5.20	V
	V <sub>o</sub>	-7V≤ Vi ≤-20V, I <sub>O</sub> =1mA to 40mA	0-125°C	-4.75	-5.00	-5.25	V
		I <sub>O</sub> =1mA to 70mA	0-125°C	-4.75	-5.00	-5.25	V
Load Regulation	۸۱/	I <sub>O</sub> =1mA ~ 100mA	25°C		20	60	mV
	$\Delta V_{o}$	I <sub>O</sub> =1mA ~ 40mA	25°C		10	30	mV
Line Regulation	۸۱/	-7V≤ Vi ≤-20V	25°C		15	150	mV
	$\Delta V_{o}$	-8V≤ Vi ≤-20V	25°C		12	100	mV
Quiescent Current	l <sub>q</sub>		25°C			6	mA
Quiescent Current Change	A 1 ==	-8V≤ Vi ≤-20V	0-125°C			1.5	mA
	Δlq	1mA≤l <sub>O</sub> ≤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**



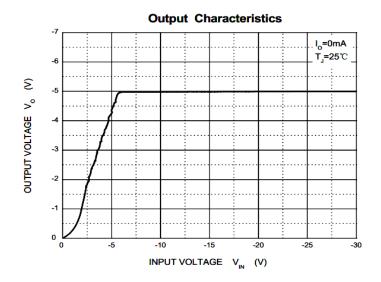
**Note**: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as Possible to the regulators.

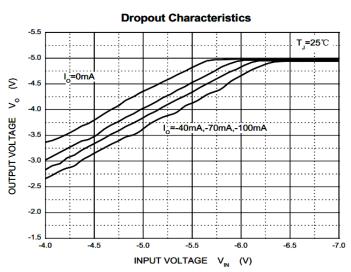


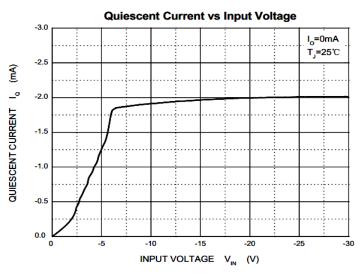
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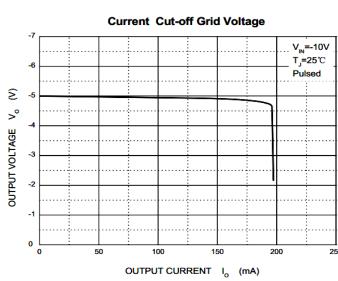


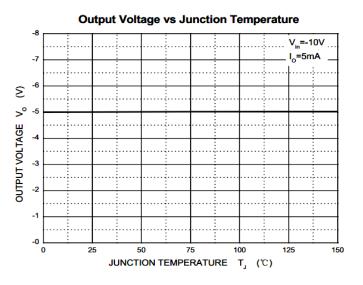
## **Typical Characteristics**

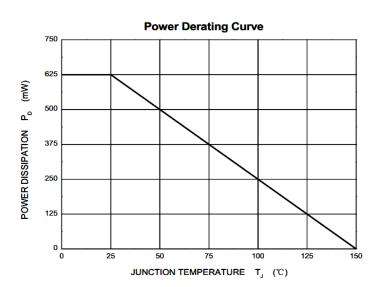










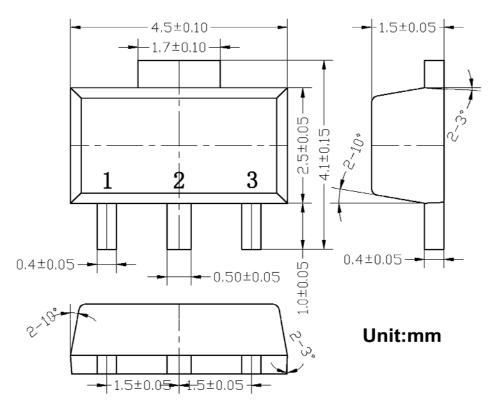




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### **Package Details**



- 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.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

### **Disclaimer**

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