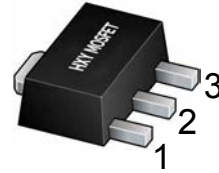




Features

- Maximum output current
 $I_{OM}: 0.1A$
- Output voltage
 $V_o: -5V$
- Continuous total dissipation
 $P_D: 0.6W (T_a = 25^\circ C)$



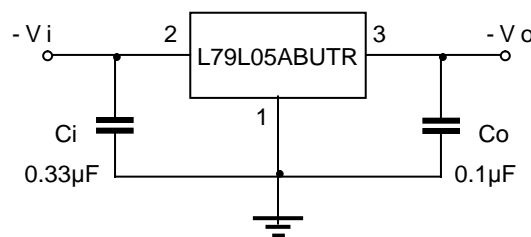
- 1: GND
- 2: IN
- 3: OUT

SOT89-3L

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
L79L05ABUTR	SOT89-3L	79L05	1000

Typical Application Circuit



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



Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-30	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	208.3	$^{\circ}\text{C}/\text{W}$
Operating Junction Temperature Range	T_{OPR}	-40~+125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-65~+150	$^{\circ}\text{C}$

Electrical Characteristics

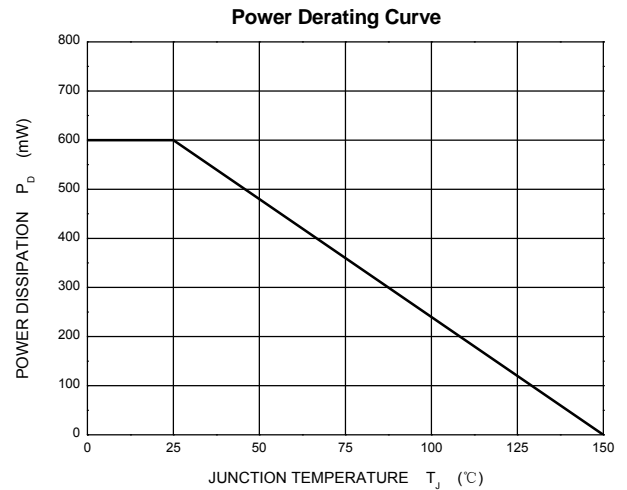
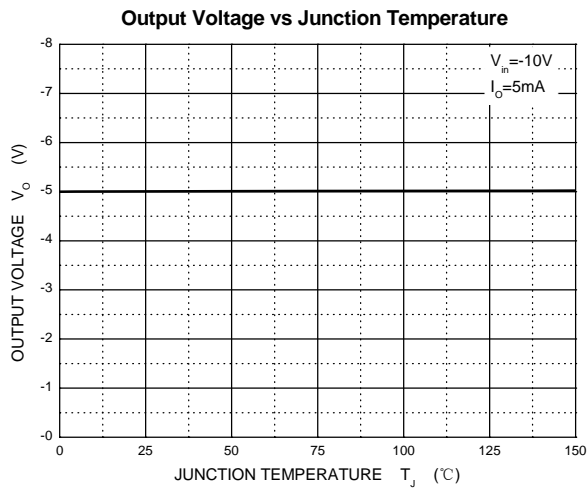
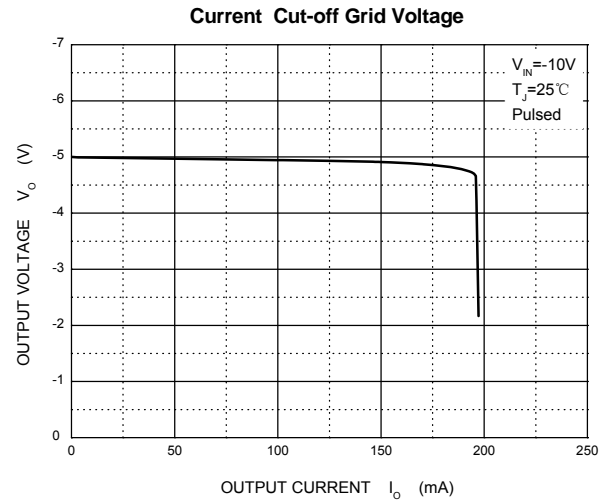
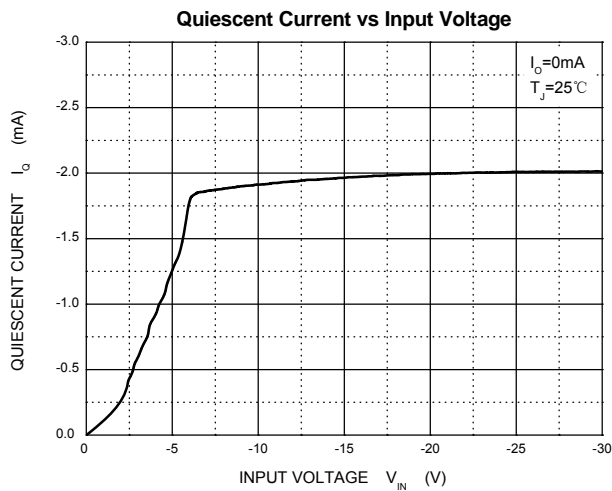
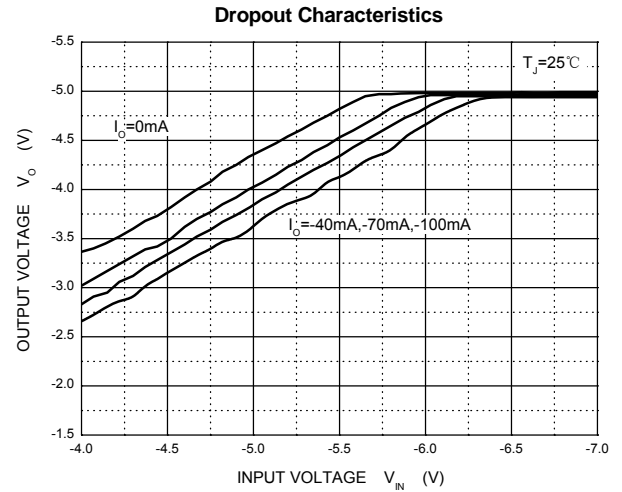
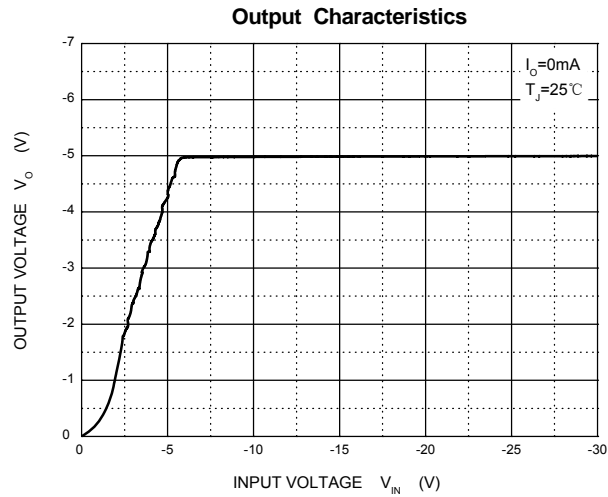
L79L05ACUTR ($V_i=-10\text{V}$, $I_o=40\text{mA}$, $C_i=0.33\mu\text{F}$, $C_o=0.1\mu\text{F}$, unless otherwise specified)

Parameter	Symbol	Test conditions		$M_j b$	T_{nd}	Max	Unit
Output Voltage	V_o		25 $^{\circ}\text{C}$	-4.8	-5.0	-5.2	V
		-7V $\leq V_i \leq$ -20V, $I_o=1\text{mA} \sim 40\text{mA}$	0-125 $^{\circ}\text{C}$	-4.75	-5.0	-5.25	V
		$I_o=1\text{mA} \sim 70\text{mA}$		-4.75	-5.0	-5.25	V
Load Regulation	ΔV_o	$I_o=1\text{mA} \sim 100\text{mA}$	25 $^{\circ}\text{C}$		20	60	mV
		$I_o=1\text{mA} \sim 40\text{mA}$	25 $^{\circ}\text{C}$		10	30	mV
Line Regulation	ΔV_o	-7V $\leq V_i \leq$ -20V	25 $^{\circ}\text{C}$		15	150	mV
		-8V $\leq V_i \leq$ -20V	25 $^{\circ}\text{C}$		12	100	mV
Quiescent Current	I_q		25 $^{\circ}\text{C}$			6	mA
Quiescent Current Change	ΔI_q	-8V $\leq V_i \leq$ -20V	0-125 $^{\circ}\text{C}$			1.5	mA
	ΔI_q	1mA $\leq V_i \leq$ 40mA	0-125 $^{\circ}\text{C}$			0.1	mA
Output Noise Voltage	V_N	10Hz $\leq f \leq$ 100KHz	25 $^{\circ}\text{C}$		40		$\mu\text{V}/V_o$
Ripple Rejection	RR	-8V $\leq V_i \leq$ -18V, $f=120\text{Hz}$	0-125 $^{\circ}\text{C}$	41	49		dB
Dropout Voltage	V_d		25 $^{\circ}\text{C}$		1.7		V

* Pulse test.

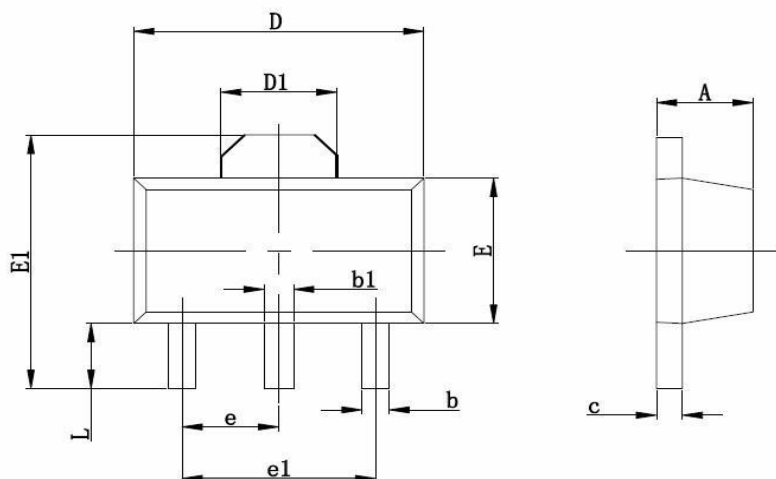


Typical Characteristics





SOT89-3L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF.		0.061 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047



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