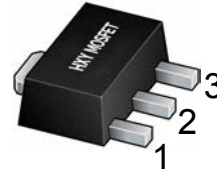




## FEATURES

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



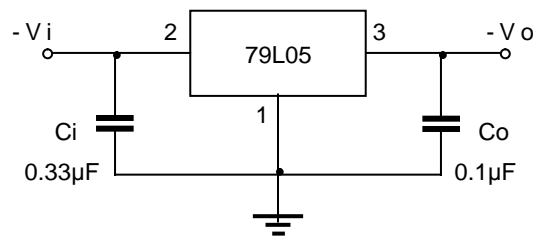
- 1: GND
- 2: IN
- 3: OUT

SOT89-3L

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
79L05	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	$^{\circ}C/W$
Operating Junction Temperature Range	$T_{OPR}$	-40~+125	$^{\circ}C$
Storage Temperature Range	$T_{STG}$	-65~+150	$^{\circ}C$

### Electrical Characteristics

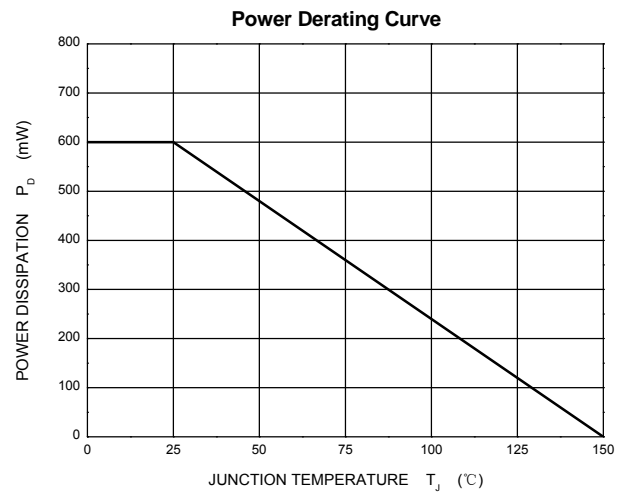
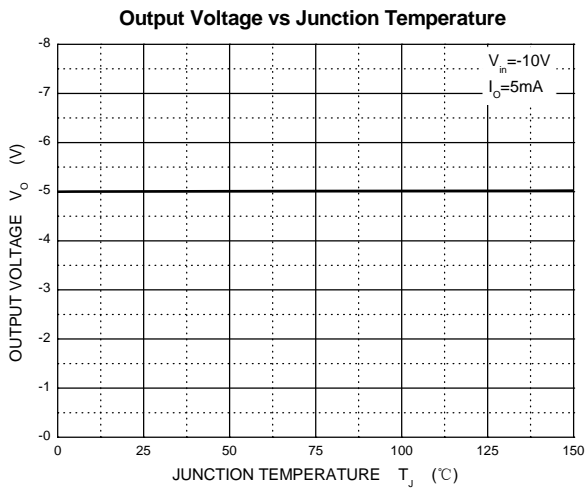
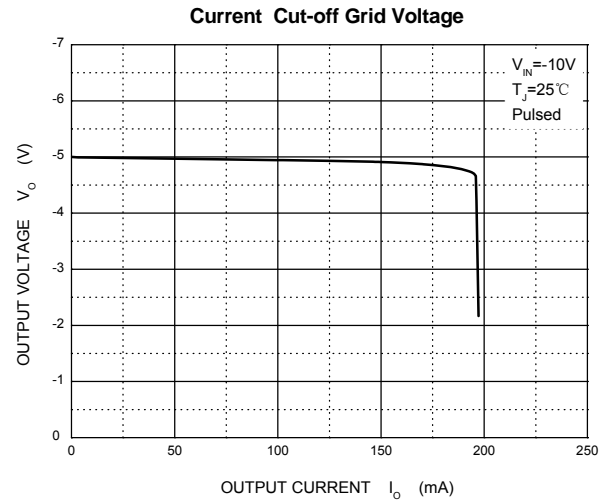
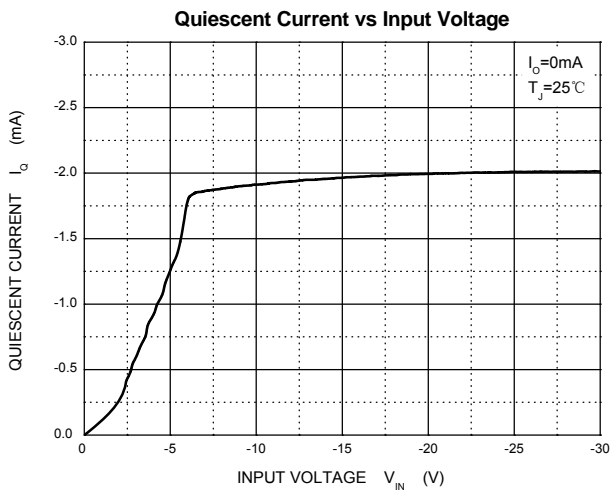
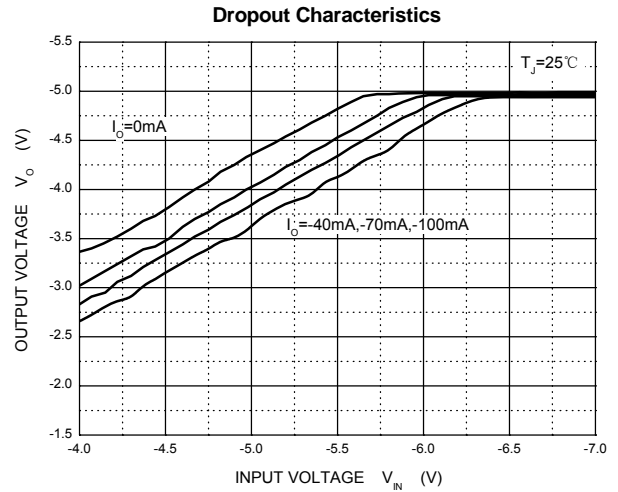
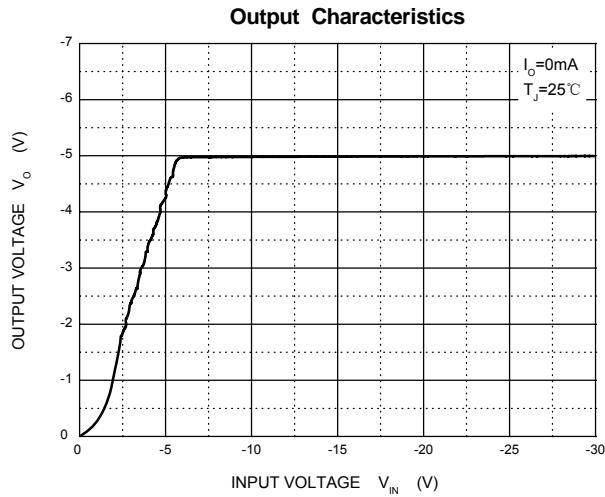
79L05 ( $V_i = -10V, I_o = 40mA, C_i = 0.33\mu F, C_o = 0.1\mu F$ , unless otherwise specified )

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

\* Pulse test.

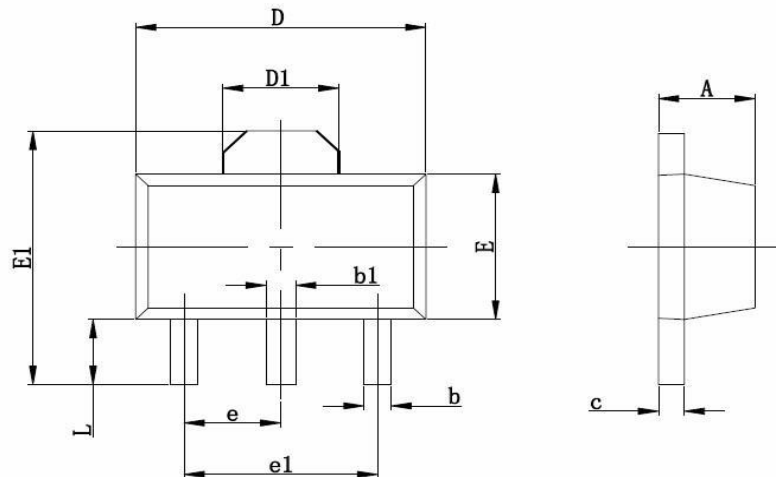


### Typical Characteristics





### 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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