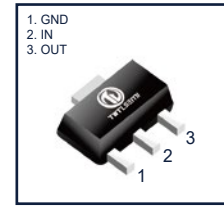


Features

- Maximum output current
 $I_{OM}: 0.1\text{ A}$
- Output voltage
 $V_O: -9\text{ V}$
- Continuous total dissipation
 $P_D: 0.5\text{ W}$



SOT-89-3L

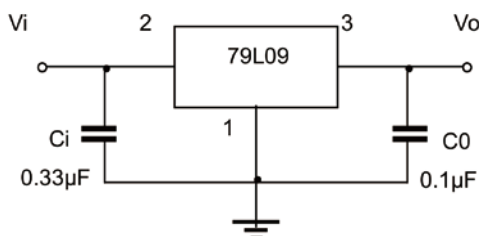
Absolute Maximum Ratings (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-30	V
Operating Junction Temperature Range	T_{OPR}	0~+150	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=-16\text{V}, I_o=40\text{mA}, C_i=0.33\mu\text{F}, C_o=0.1\mu\text{F}$, unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit	
V_o	Output Voltage	25°C	-8.64	-9.0	-9.36	V	
		-12V ≤ V_i ≤ -24V, $I_o=1\text{mA}-40\text{mA}$	0-125°C	-8.55	-9.0		-9.45
		$I_o=1\text{mA}-70\text{mA}$		-8.55	-9.0		-9.45
ΔV_o	Load Regulation	$I_o=1\text{mA}-100\text{mA}$	25°C	19	90	mV	
		$I_o=1\text{mA}-40\text{mA}$	25°C	11	40		
ΔV_o	Line Regulation	-12V ≤ V_i ≤ -24V	25°C	45	175	mV	
		-13V ≤ V_i ≤ -24V	25°C	40	125		
I_q	Quiescent Current		25°C	4.1	6.0	mA	
ΔI_q	Quiescent Current Change	-13V ≤ V_i ≤ -24V	0-125°C		1.5	mA	
		1mA ≤ V_i ≤ 40mA	0-125°C		0.1		
V_N	Output Noise Voltage	10Hz ≤ f ≤ 100KHz	25°C	58		uV	
RR	Ripple Rejection	-15V ≤ V_i ≤ -24V, $f=120\text{Hz}$	0-125°C	45		dB	
V_d	Dropout Voltage		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.

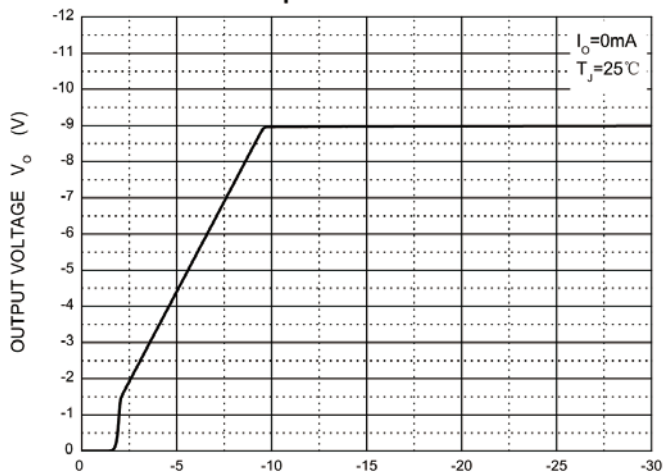
Ordering information

Product ID	Pack	Naming rule	Marking	Qty(PCS)
79L09	SOT-89-3L	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 79L09 </div> <small>产品名称 product name</small>	79L09	1000

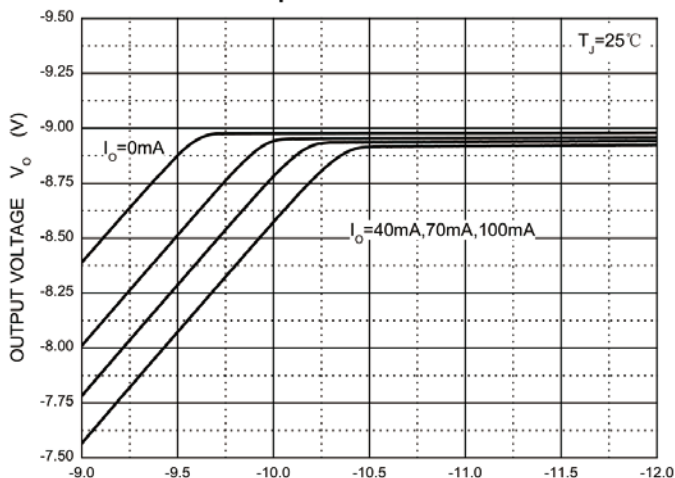


Typical Characteristics

Output Characteristics



Dropout Characteristics



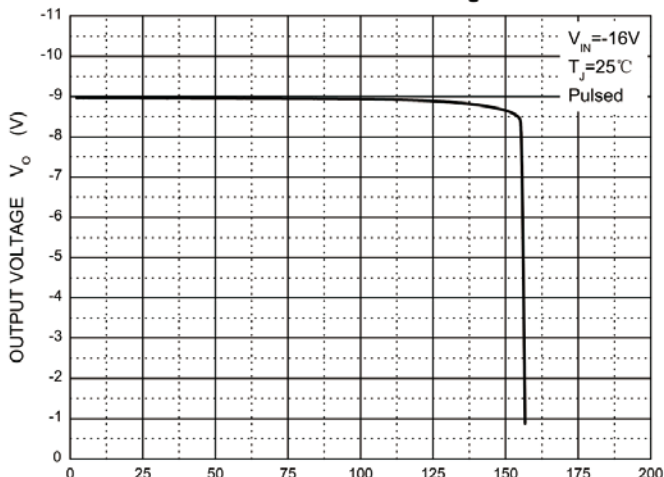
INPUT VOLTAGE $V_{IN}(V)$

Quiescent Current vs Input Voltage



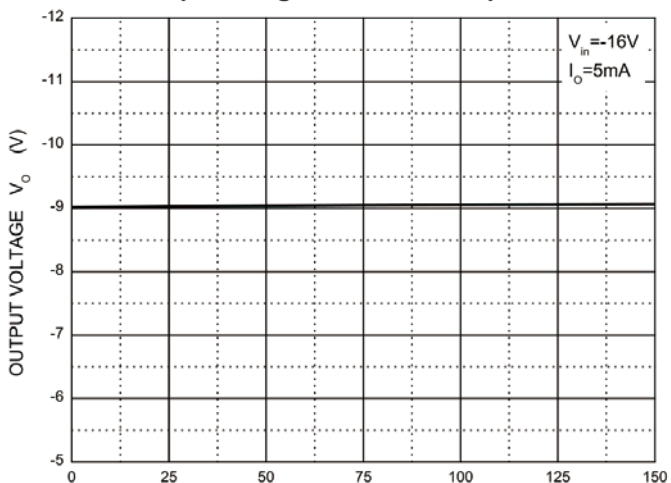
INPUT VOLTAGE $V_{IN}(V)$

Current Cut-off Grid Voltage



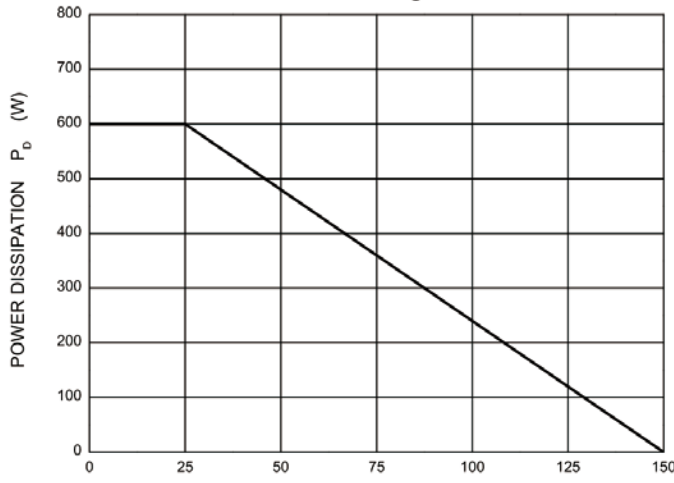
INPUT VOLTAGE $V_{IN}(V)$

Output Voltage vs Junction Temperature



OUTPUT CURRENT $I_o(mA)$

Power Derating Curve

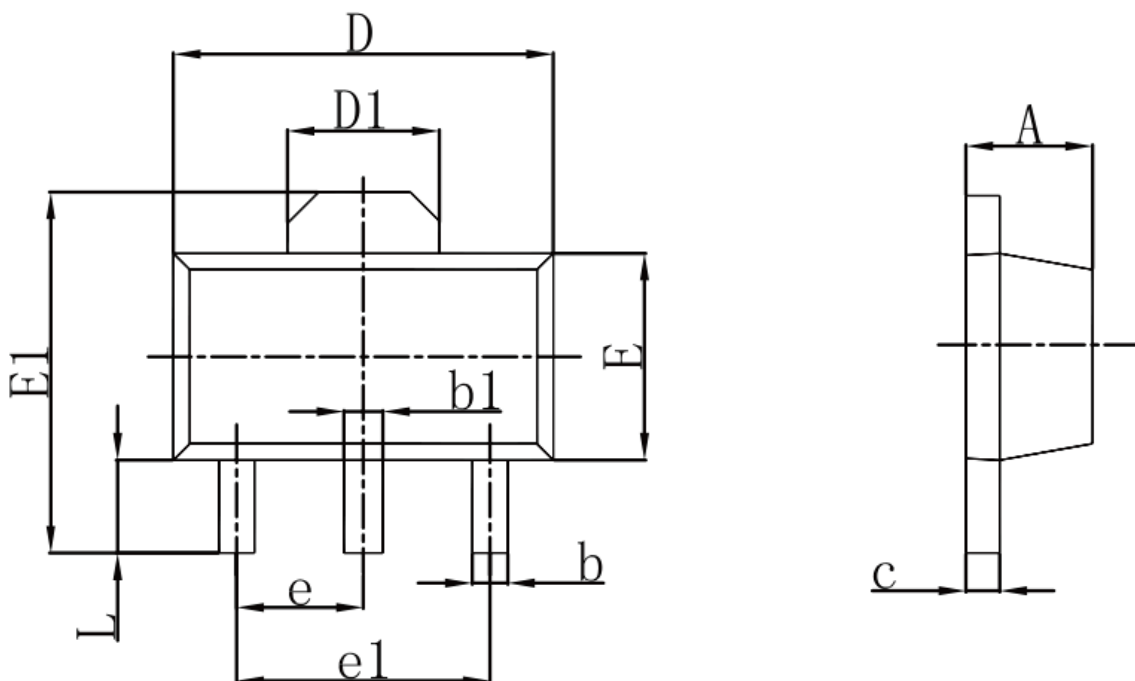


JUNCTION TEMPERATURE $T_J(^{\circ}C)$

JUNCTION TEMPERATURE $T_J(^{\circ}C)$



SOT-89-3L 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