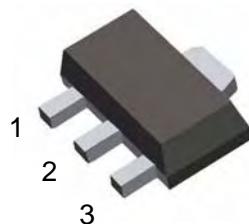




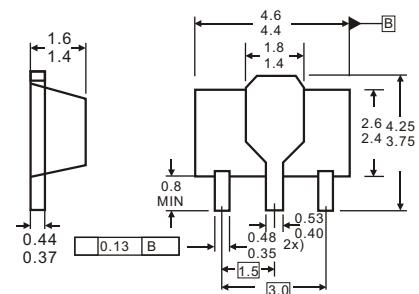
SOT-89

Features

- ❖ Maximum Output current
 I_{OM} : 100 mA
- ❖ Output voltage
 V_O : -15 V
- ❖ Continuous total dissipation
 P_D : 0.5 W



1. GND
2. IN
3. OUT



Dimensions in inches and (millimeters)

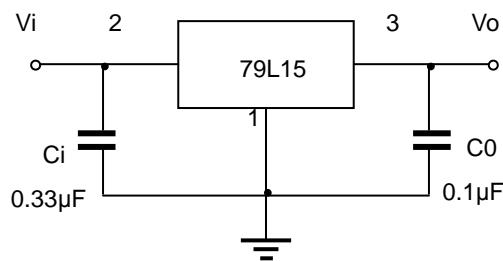
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V_i	-35	V
Operating Junction Temperature Range	T_{OPR}	0~+125	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS ($V_i=-23V$, $I_o=40mA$, $C_i=0.33\mu F$, $C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o		25°C	-14.4	-15	-15.6
		-17.5V≤ V_i ≤-30V, $I_o=1mA~40mA$	0~125°C	-14.25	-15	-15.75
		$I_o=1mA~70mA$		-14.25	-15	-15.75
Load Regulation	ΔV_o	$I_o=1mA~100mA$, $V_i=-23V$	25°C	25	150	mV
		$I_o=1mA~40mA$, $V_i=-23V$	25°C	15	75	mV
Line regulation	ΔV_o	-17.5V≤ V_i ≤-30V, $I_o=40mA$	25°C	65	300	mV
		-20V≤ V_i ≤-30V, $I_o=40mA$	25°C	50	250	mV
Quiescent Current	I_q		25°C		6.5	mA
Quiescent Current Change	ΔI_q	-20V≤ V_i ≤-30V, $I_o=40mA$	0~125°C		1.5	mA
	ΔI_q	1mA≤ I_o ≤40mA	0~125°C		0.1	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25°C	90		μV
Ripple Rejection	RR	-18.5V≤ V_i ≤-28.5V, f=120Hz	0~125°C	34	39	dB
Dropout Voltage	V_d		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.



Typical Characteristics

