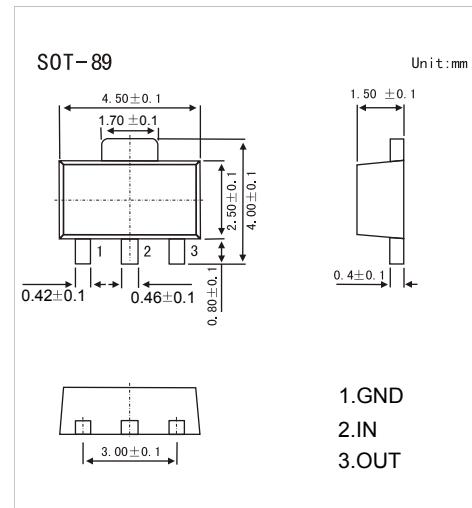


Three-Terminal Negative Voltage Regulator

79L15

■ Features

- Maximum Output current I_{OM} : 0.1 A
- Output voltage V_O : -15V
- Continuous total dissipation P_D : 0.5 W



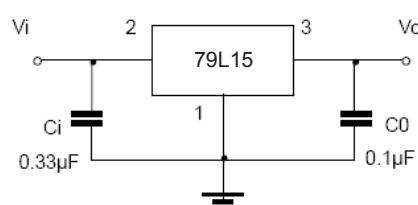
■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Input Voltage	V_I	-35	V
Operating Junction Temperature Range	T_{OPR}	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

■ Electrical Characteristics ($V_I=-23V, I_o=40mA, 0^\circ C < T_j < 125^\circ C, C_1=0.33\mu F, C_0=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	V_O	$T_j=25^\circ C$	-14.4	-15	-15.6	V
		$-17.5V \leq V_I \leq -30V, I_o=1mA-40mA$	-14.25	-15	-15.75	V
		$I_o=1mA-70mA$	-14.25	-15	-15.75	V
Load Regulation	ΔV_O	$T_j=25^\circ C, I_o=1mA \text{ to } 100mA, V_I=-23V$		25	150	mV
		$T_j=25^\circ C, I_o=1mA \text{ to } 40mA, V_I=-23V$		15	75	mV
Line regulation	ΔV_O	$-17.5V \leq V_I \leq -30V, T_j=25^\circ C$		65	300	mV
		$-20V \leq V_I \leq -30V, T_j=25^\circ C$		50	250	mV
Quiescent Current	I_Q	$25^\circ C$			6.5	mA
Quiescent Current Change	ΔI_Q	$0^\circ C < T_j < 125^\circ C, -20V \leq V_I \leq -30V$			1.5	mA
	ΔI_Q	$0^\circ C < T_j < 125^\circ C, 1mA \leq I_o \leq 40mA$			0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz, T_j=25^\circ C$		90		uV
Ripple Rejection	R_R	$-18.5V \leq V_I \leq -28.5V, f=120Hz$	34	39		dB
Dropout Voltage	V_d	$T_j=25^\circ C$			1.7	V

■ Typical Application





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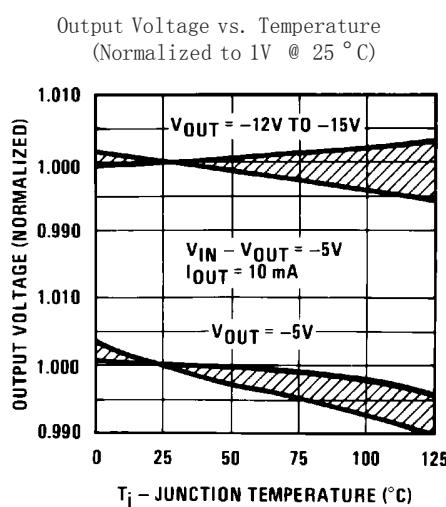
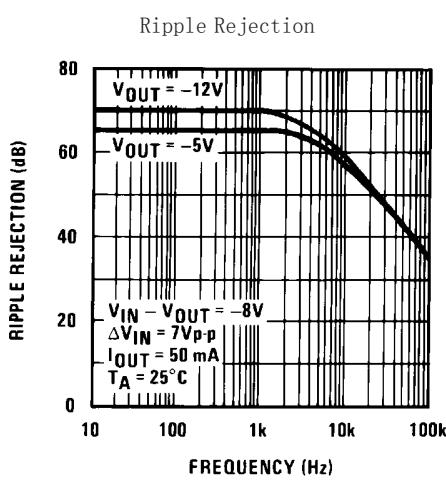
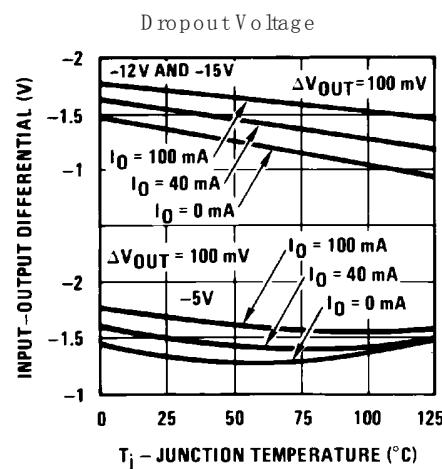
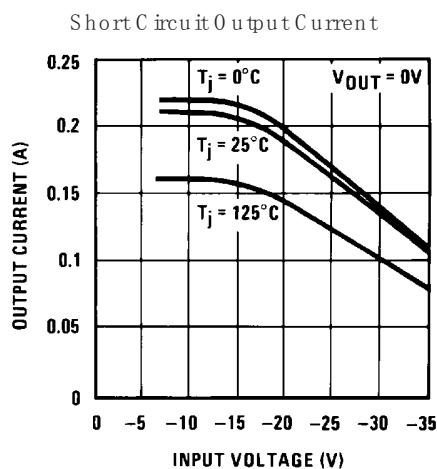
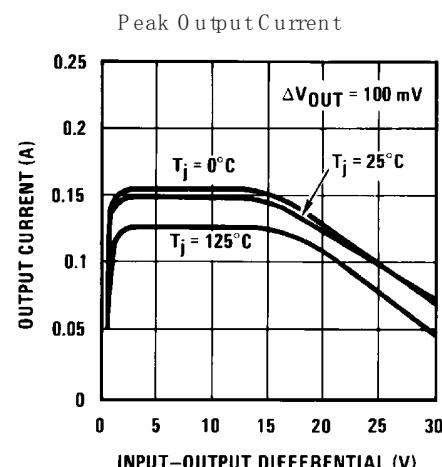
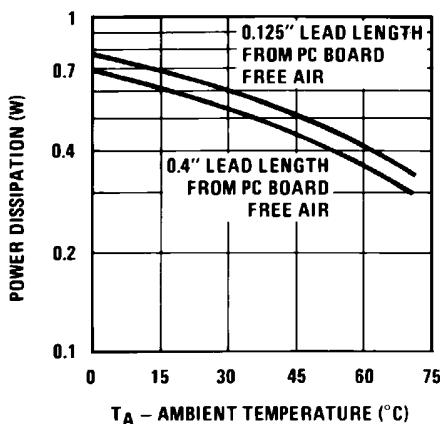
SMD Type

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Three-Terminal Negative Voltage Regulator

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■ Typical Characteristics



Three-Terminal Negative Voltage Regulator

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■ Typical Characteristics

