

**78L12**

SOT - 89 Plastic - Encapsulate Regulators

78L12

Three-terminal positive voltage regulator

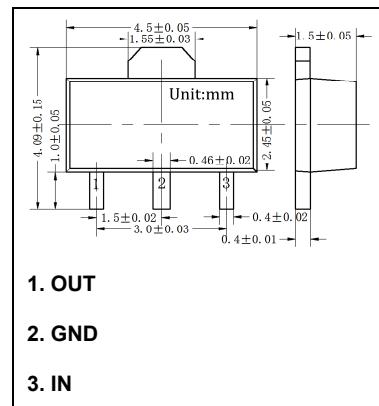
Features:

Maximum Output current I_{OM} : 0.1A

Output voltage V_O : 12V

Continuous total dissipation

P_D : 0.8W ($T_a = 25^\circ C$)



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

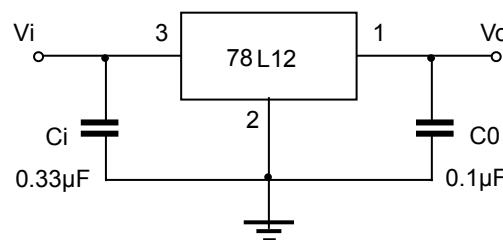
Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	166.7	°C/W
Operating Junction Temperature Range	T_{OPR}	-25~+125	°C
Storage Temperature Range	T_{STG}	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=19V$, $I_o=40mA$, $C_i=0.33\mu F$, $C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o		25°C	11.5	12	12.5
		14V≤ V_i ≤27V, $I_o=1mA-40mA$	0-125°C	11.4	12	12.6
		$I_o=1mA-70mA$		11.4	12	12.6
Load Regulation	ΔV_o	$I_o=1mA-100mA$	25°C		22	mV
		$I_o=1mA-40mA$	25°C		13	mV
Line regulation	ΔV_o	14.5V≤ V_i ≤27V	25°C		55	mV
		16V≤ V_i ≤27V	25°C		49	mV
Quiescent Current	I_q		25°C		4.3	mA
Quiescent Current Change	ΔI_q	16V≤ V_i ≤27V	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		70	$\mu V/V_o$
Ripple Rejection	RR	15V≤ V_i ≤25V, f=120Hz	0-125°C	37	42	dB
Dropout Voltage	V_d		25°C		1.7	V

* Pulse test.

TYPICAL APPLICATION



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

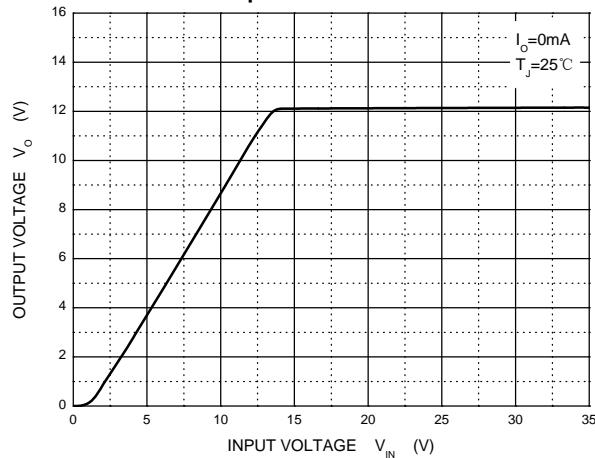
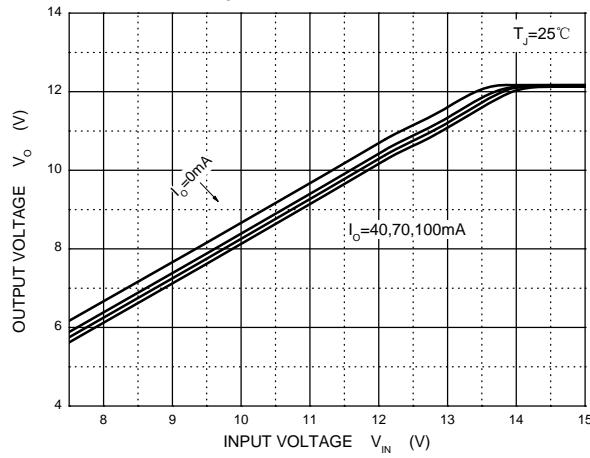
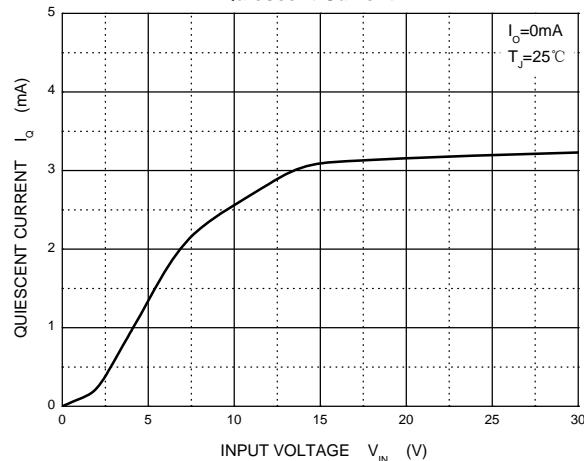
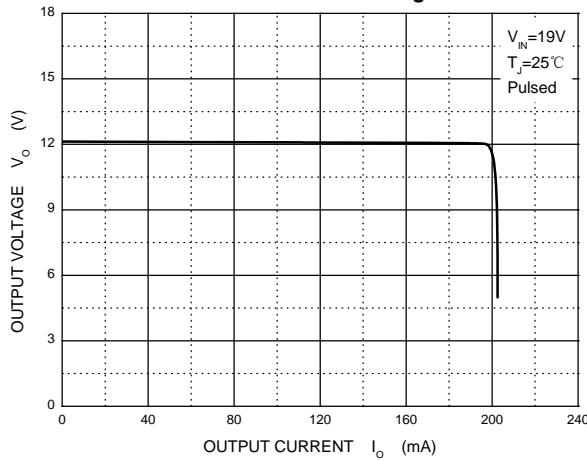
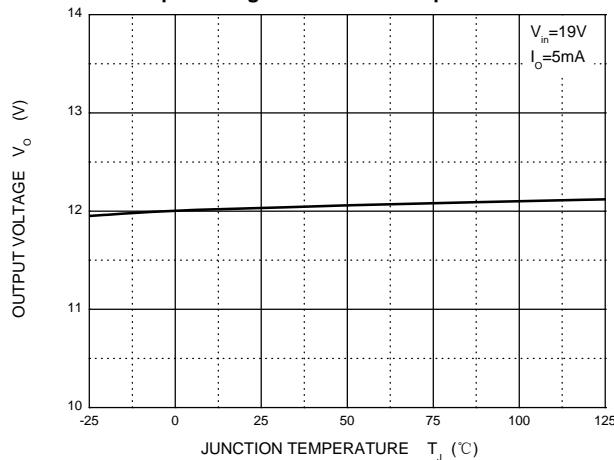
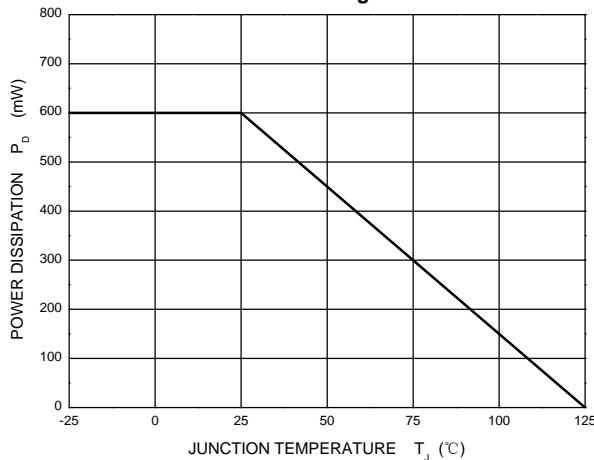


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Typical Characteristics

Output Characteristics**Dropout Characteristics****Quiescent Current****Current Cut-off Grid Voltage****Output Voltage vs Junction Temperature****Power Derating Curve**

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