Elektronische Bauelemente

SJ78L12

3-Terminal
Positive Voltage Regulator

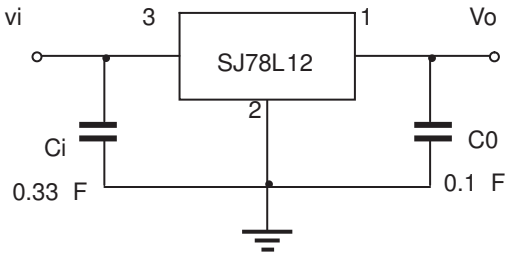
RoHS Compliant Product
A suffix of "-C" specifies halogen and lead-free

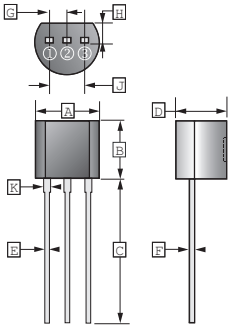
FEATURES

- Maximum output current I_O: 0.1A
- Output voltage V_O: 12V
- Continuous total dissipation P_D: 0.625W

TO-92

TYPICAL APPLICATION





REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.40	4.70	F	0.36	0.51
B	4.30	4.70	G	1.27 TYP.	
C	12.70	-	H	1.10	-
D	3.30	3.81	J	2.42	2.66
E	0.36	0.56	K	0.36	0.76

MARKING

CJ78L12

PINNING

1. Out
2. Ground
3. IN

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

PARAMETER	SYMBOL	VALUE	UNITS
Input Voltage	V_I	35	V
Operating Junction and Storage Temperature Range	T_{OPR}, T_{STG}	0~125, -55~150	℃

ELECTRICAL CHARACTERISTICS

(At specified virtual junction temperature, V_I=19V, I_O=40mA, C_I=0.33μF, C_O=0.1μF unless otherwise specified)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Output Voltage	V_O	11.5	12	12.5	V	T_J=25 ℃,
		11.4	12	12.6	V	14V≦V_I≦27V, I_O=1mA~40mA, T_J=0~125 ℃
		11.4	12	12.6	V	I_O=1mA~70mA, T_J=0~125 ℃
Load Regulation	$\triangle V_O$	-	22	100	mV	I_O=1mA~100mA, T_J=25 ℃
		-	13	50	mV	I_O=1mA~40mA, T_J=25 ℃
Line Regulation	$\triangle V_O$	-	55	250	mV	14.5V≦V_I≦27V, T_J=25 ℃
		-	49	200	mV	16V≦V_I≦27V, T_J=25 ℃
Quiescent Current	I_Q	-	4.3	6.5	mA	T_J=25 ℃
Quiescent Current Change	$\triangle I_Q$	-	-	1.5	mA	16V≦V_I≦27V, T_J=0~125 ℃
	$\triangle I_Q$	-	-	0.1	mA	1mA≦V_I≦40mA, T_J=0~125 ℃
Output Noise Voltage	V_N	-	70	-	μV	10Hz≦f≦100KHz, T_J=25 ℃
Ripple Rejection	RR	37	42	-	dB	15V≦V_I≦25V, f=120Hz, T_J=0~125 ℃
Drop Out Voltage	V_D	-	1.7	-	C	T_J=25 ℃

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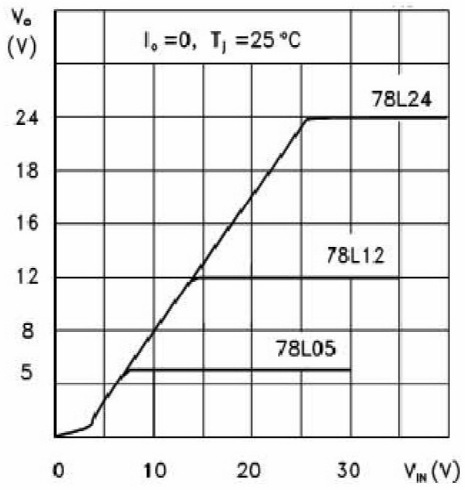
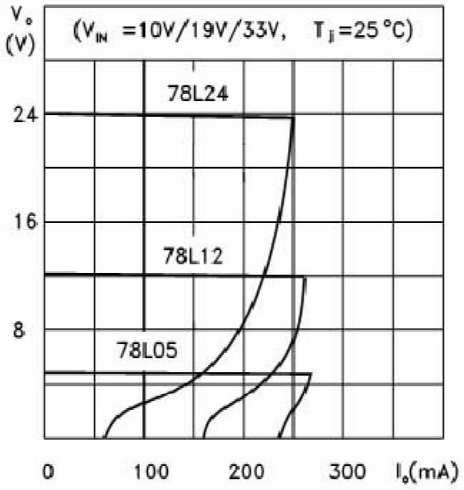
TYPICAL APPLICATION

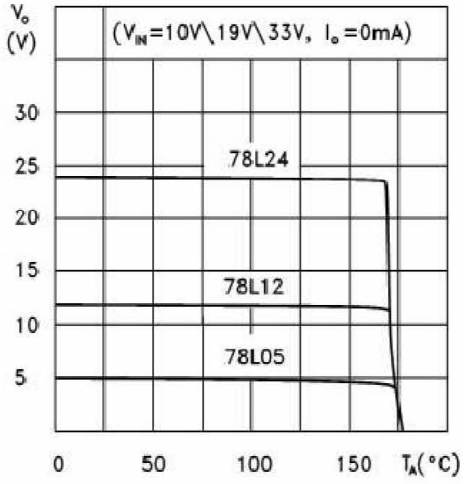
Output Characteristics



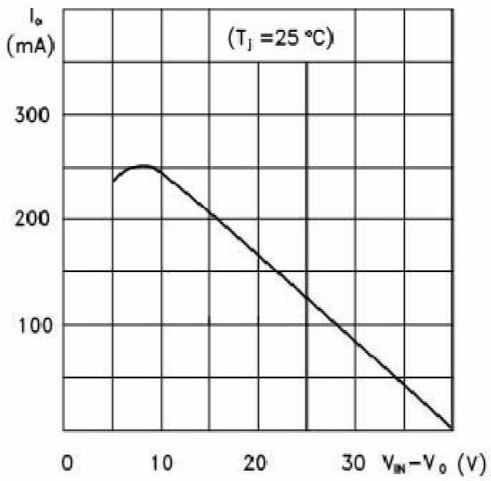
Load Characteristics



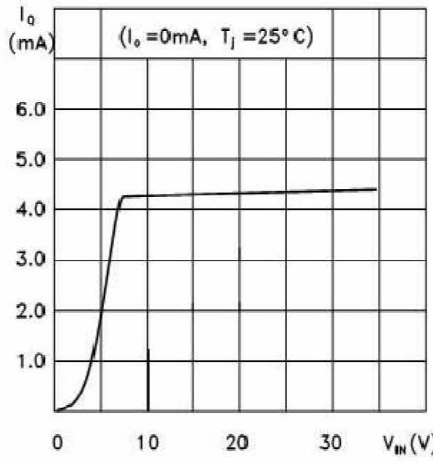
Thermal Shutdown



Short Circuit Output Current



Quiescent Current vs Input Voltage



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