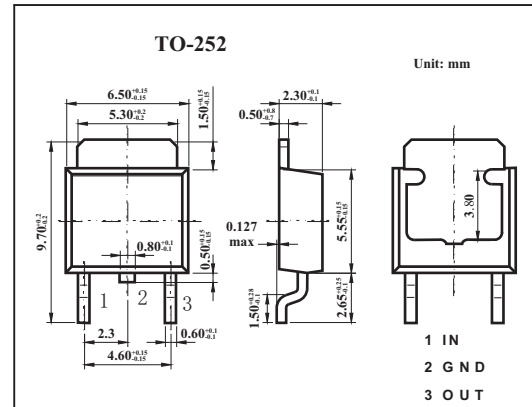


Three-terminal Positive Voltage Regulator 78M12

■ Features

- Maximum Output current I_{OM} : 0.5 A
- Output voltage V_o : 12V
- Continuous total dissipation P_D : 1.25W



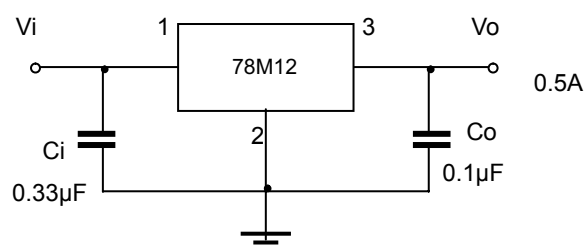
■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Input Voltage	V_i	35	V
Operating Junction Temperature Range	T_{OPR}	0 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150	$^\circ\text{C}$

■ Electrical Characteristics ($V_{IN}=19\text{V}, I_o=350\text{mA}, 0^\circ\text{C} < T_j < 125^\circ\text{C}, C_i=0.33\ \mu\text{F}, C_o=0.1\ \mu\text{F}$, unless otherwise specified)

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Output voltage	V_o	$T_j=25^\circ\text{C}$	11.5	12	12.5	V
		$14.5 \leq V_i \leq 27\text{V}, I_o=5\text{mA} \sim 350\text{mA}, P_o \leq 15\text{W}$	11.4	12	12.6	V
Load regulation	ΔV_o	$I_o=5\text{mA} \sim 500\text{mA}, T_j=25^\circ\text{C}$		25	240	mV
		$I_o=5\text{mA} \sim 200\text{mA}, T_j=25^\circ\text{C}$		10	120	mV
Line regulation	ΔV_o	$14.5 \leq V_i \leq 30\text{V}, I_o=200\text{mA}, T_j=25^\circ\text{C}$		10	100	mV
		$16 \leq V_i \leq 30\text{V}, I_o=200\text{mA}, T_j=25^\circ\text{C}$		3	50	mV
Quiescent current	I_q	$T_j=25^\circ\text{C}$		4.6	6.0	mA
Quiescent current change	ΔI_q	$14.5\text{V} \leq V_i \leq 30\text{V}, I_o=200\text{mA}$			0.8	mA
		$5\text{mA} \leq I_o \leq 350\text{mA}$			0.5	mA
Output noise voltage	V_N	$10\text{Hz} \leq f \leq 100\text{KHz}, T_j=25^\circ\text{C}$		75		μV
Ripple rejection	RR	$15\text{V} \leq V_i \leq 25\text{V}, f=120\text{Hz}, I_{OUT}=300\text{mA}$	55	80		dB
Dropout Voltage	V_d	$I_o=350\text{mA}, T_j=25^\circ\text{C}$		2.0		V
Short Circuit Current	I_{sc}	$V_i=19\text{V}, T_j=25^\circ\text{C}$		240		mA
Peak Output Current	I_{pk}	$T_j=25^\circ\text{C}$		0.7		A

■ Typical Application



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Linear Voltage Regulators](#) category:

Click to view products by [KEXIN](#) manufacturer:

Other Similar products are found below :

[LV56831P-E](#) [LV5684PVD-XH](#) [MCDTSA6-2R](#) [L4953G](#) [L7815ACV-DG](#) [PQ3DZ53U](#) [LV56801P-E](#) [TCR3DF13,LM\(CT](#)

[TCR3DF39,LM\(CT](#) [TLE42794G](#) [L78L05CZ/1SX](#) [L78LR05DL-MA-E](#) [L78MR05-E](#) [033150D](#) [033151B](#) [090756R](#) [636416C](#)

[NCV78M15BDTG](#) [702482B](#) [714954EB](#) [TLE42794GM](#) [TLE42994GM](#) [ZMR500QFTA](#) [BA033LBSG2-TR](#) [NCV78M05ABDTRKG](#)

[NCV78M08BDTRKG](#) [NCP7808TG](#) [NCV571SN12T1G](#) [LV5680P-E](#) [CAJ24C256YI-GT3](#) [L78M15CV-DG](#) [L9474N](#)

[TLS202B1MBV33HTSA1](#) [L79M05T-E](#) [NCP571SN09T1G](#) [MAX15006AASA/V+](#) [MIC5283-5.0YML-T5](#) [L4969URTR-E](#) [L78LR05D-MA-E](#)

[NCV7808BDTRKG](#) [L9466N](#) [NCP7805ETG](#) [SC7812CTG](#) [NCV7809BTG](#) [NCV571SN09T1G](#) [NCV317MBTG](#) [MC78M15CDTT5G](#)

[MC78M12CDTT5G](#) [L9468N](#) [LT1054IS8#TRPBF](#)