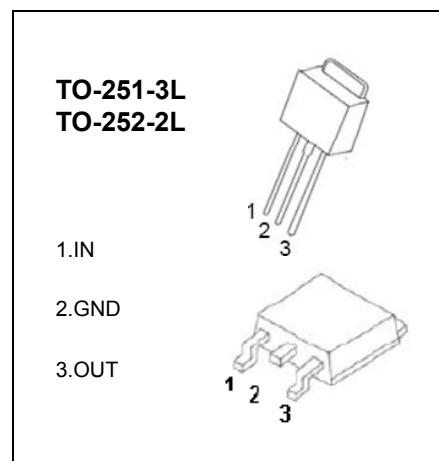




DONGGUAN NANJING ELECTRONICS LTD.,

TO-251-3L/TO-252-2L Plastic-Encapsulate Regulators**78M12** Three-terminal positive voltage regulator**FEATURES**Maximum Output current I_{OM} : 0.5 AOutput voltage V_O : 12V

Continuous total dissipation

 P_D : 1.25 W ($T_a = 25^\circ C$)
15 W ($T_c = 25^\circ C$)**ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)**

Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Operating Junction Temperature Range	T_{OPR}	0-+125	°C
Storage Temperature Range	T_{STG}	-65-+150	°C

ELECTRICAL CHARACTERISTICS (Vi=19V, Io=350mA, Ci=0.33μF, Co=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V_o	25°C	11.5	12	12.5	V
		14.5≤ V_i ≤27V, Io =5mA-350mA P_o ≤ 1.25W	0-125°C	11.4	12	12.6
Load Regulation	ΔV_o	Io =5mA-500mA	25°C	25	240	mV
		Io =5mA-200mA	25°C	10	120	mV
Line Regulation	ΔV_o	14.5V≤ V_i ≤30V, Io =200mA	25°C	10	100	mV
		16V≤ V_i ≤30V, Io =200mA	25°C	3	50	mV
Quiescent Current	I_q	25°C		4.6	6	mA
Quiescent Current Change	ΔI_q	14.5V≤ V_i ≤30V, Io =200mA	0-125°C		0.8	mA
	ΔI_q	5mA≤ I_o ≤350mA	0-125°C		0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25°C	75		μV
Ripple Rejection	RR	15≤ V_i ≤25V, f=120Hz, Io =300mA	0-125°C	55	80	dB
Dropout Voltage	V_d	Io =350mA	25°C	2		V
Short Circuit Current	I_{sc}	Vi =19V	25°C	240		mA
Peak Current	I_{pk}		25°C	0.7		A

TYPICAL APPLICATION