

Three-terminal positive voltage regulator

FEATURES

•Maximum output current IOM: 0.5 A

Output voltageVO: 15V

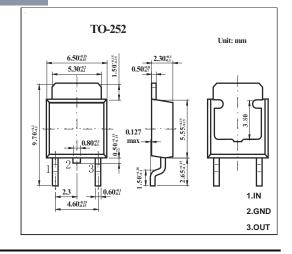
Continuous total dissipation

P_D: 1.25 W (T _a= 25 °C)

MECHANICAL DATA

Case: TO-252 Small Outline Plastic PackagePolarity: Color band denotes cathode end

Mounting Position: Any



ABSOLUTE MAXIMUM RATINGS

(Operating temperature range applies unless otherw ise specified)

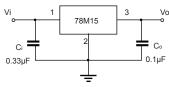
Parameter	Symbol	Value	Unit	
Input Voltage	Vi	35	V	
Thermal Resistance from Junction to Ambient	R _{0JA}	80	°C/W	
Operating Junction Temperature Range	T _{OPR}	-25~+125	°C	
Storage Temperature Range	T _{STG}	-65~+150	°C	

ELECTRICAL CHARACTERISTICS (Vi=23V,lo=350mA, Ci=0.33µF,Co=0.1µF, unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Output Voltage	Vo	Vi=23V,Io=350mA	25℃	14.4	15	15.6	V
		17.5≤V _i ≤30V, Io=5mA~350mA	-25-125℃	14.25	15	15.75	V
Load Regulation	ΔVο	Io=5mA~500mA	25℃			300	mV
		Io=5mA~200mA	25℃			150	mV
Line Regulation	ΔVο	17.5V≤V _i ≤30V, Io=200mA	25℃			100	mV
		20V≤V _i ≤26V, Io=200mA	25℃			50	mV
Quiescent Current	Iq	Vi=23V,Io=350mA	25℃			6	mA
Quiescent Current Change	Δlq	17.5V≤V _i ≤30V, Io=200mA	-25-125℃			0.8	mA
	Δlq	Vi=23V, Io=5mA~350mA	-25-125℃			0.5	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz	25℃		90		μV/Vo
Ripple Rejection	RR	18.5≤V _i ≤28.5V,f=120Hz,lo=300mA	-25-125℃	54			dB
Dropout Voltage	Vd		25℃		2		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.



RATINGS AND CHARACTERISTIC CURVES

Typical Characteristics

