

Three-terminal positive voltage regulator

FEATURES

- •Maximum output current IOM: 1.5 A
- •Output voltage VO: 12 V
- Continuoustotal dissipation

P_D: 1.25 W (T_a= 25 °C)

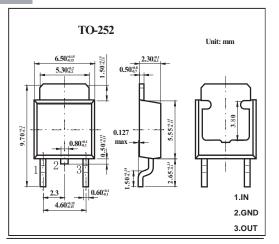
MECHANICAL DATA

•Case: TO-252 Plastic Package

•Polarity: Color band denotes cathode end

Storage Temperature Range

Mounting Position: Any



Unit V ℃/W ℃

°C

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25	°C Ambient Temperature (unless otherwise noted)			
	Parameter	Symbol	Value	
	Input Voltage	Vi	35	
	Thermal Resistance from Junction to Ambient	R _{0JA}	80	
	Operating Junction Temperature Range	T _{OPR}	-25~+125	

ELECTRICALCHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE (Vi=19V, Io=500mA, Ci=0.33µF, Co=0.1µF, unless otherwise specified)

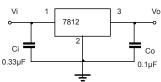
Parameter	Symbol	Test conditions		Min	Тур	Мах	Unit
	Vo		25℃	11.5	12.0	12.5	V
Output Voltage		lo= 5mA-1A,	-25-125℃	11.4	12.0	12.6	V
		14.5V≤ V _i ≤27V					
Load Pogulation	ΔVo	14.5V≤ Vi ≤30V	25℃		10	240	mV
Load Regulation		16V≤V _i ≤22V	25℃		3	120	mV
Line Regulation	ΔVo	I ₀ =5mA -1.5A	25℃		12	240	mV
		I ₀ =250mA - 750mA	25℃		4	120	mV
Quiescent Current	lq		25℃		4.3	8	mA
Quieseent Current Change	Δlq	5.0mA≤ I _O ≤1.0A	-25-125℃			0.5	mA
Quiescent Current Change		14.5V ≤V _i ≤ 30V	-25-125℃			1.0	mA
Output Voltage Drift	∆Vo/∆T	I _O =5mA	-25-125℃		-1		mV/℃
Output Noise Voltage	V _N	f =10Hz to 100KHz	25℃		75		μV/Vo
Ripple Rejection	RR	f =120Hz, 15V≤ V _i ≤25V	-25-125℃	55	71		dB
Dropout Voltage	V _d	I ₀ =1.0A	25℃		2		V
Output Resistance	Ro	f = 1KHz	-25-125℃		18		mΩ
Short Circuit Current	lsc		25℃		350		mA
Peak Current	lpk		25℃		2.2		А

T_{STG}

-65~+150

* Pulse test.

TYPICAL APPLICATION



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



RATINGS AND CHARACTERISTIC CURVES

TYPICAL APPLICATION

