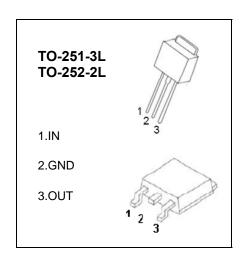
PUOLOP 迪浦

Three-terminal positive voltage regulator

FEATURES

Maximum output current I_{OM} : 0.5 A Output voltage V_o : 9V Continuous total dissipation P_D : 1.25 W (Ta = 25 °C)



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

Parameter	Symbol	Value	Unit	
Input Voltage	Vi	25	V	
Operating Junction Temperature Range	T _{OPR}	0-+125	°C	
Storage Temperature Range	T _{STG}	-65-+150	℃	

$\textbf{ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE} \ (Vi=16V, \ lo=350 \text{mA}, C_i=0.33 \mu\text{F}, Co=0.1 \mu\text{F}, \ unless otherwise specified})$

Pa rameter	Symbol	Test conditions		Min	Тур	Max	Unit
Output Voltage			25℃	8.65	9	9.35	V
	Vo	11.5≤V _i ≤24V, lo=5mA-350mA, Po≤ 15W	0-125℃	8.55	9	9.45	V
Load Regulation	ΔVο	Io=5mA-500mA	25℃		20	180	mV
		Io=5mA-200mA	25℃		10	90	mV
Line Regulation	ΔVο	11.5V≤V _i ≤26V, Io=200mA	25℃		6	100	mV
		12V≤V _i ≤26V, lo=200mA	25℃		2	50	mV
Quiescent Current	Iq		25℃		4.6	6	mA
Quiescent Current Change	Δlq	11.5V≤V _i ≤26V, Io=200mA	0-125℃			0.8	mA
	Δlq	5mA≤l ₀ ≤350mA	0-125℃			0.5	mA
Output Noise Voltage	V _N	10Hz≤ f ≤100KHz	25℃		60		μV
Ripple Rejection	RR	13≤V _i ≤23V,f=120Hz,lo=300mA	0-125℃	56	80		dB
Dropout Voltage	Vd	Io=350mA	25℃		2		V
Short Circuit Current	Isc	Vi=16V	25℃		250		mA
Peak Current	lpk		25℃		0.5		Α

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TYPICAL APPLICATION

Vi

78M09

Ci

2

0.33μF

0.1μF

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