Three-terminal positive voltage regulator

FEATURES

ŏMaximum output current IOM: 1.5 A

ŏOutput voltageVO: -12V

ŏContinuous total dissipation

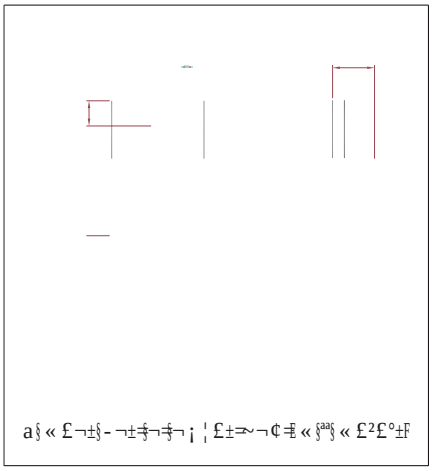
P_D: 1.5 W (T_a= 25 ω̄)

MECHANICAL DATA

ŏCase: TO-220 Small Outline Plastic Package

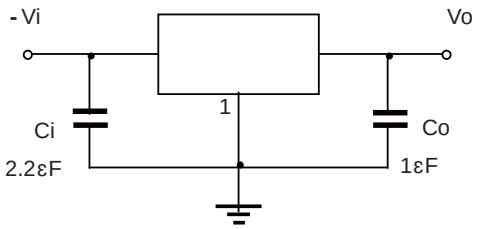
ŏPolarity: Color band denotes cathode end

ŏMounting Position: Any



Parameter	Symbol	Value	Unit
Input Voltage	V_i		V
Thermal Resistance from Junction to Air	R_{dJA}		ω̄/W
Operating Junction Temperature Range	T_{OPR}		ω̄
Storage Temperature Range	T_{STG}	-65 150	ω̄

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output Voltage	Vo		25ω̄	-11.	-12	-12.	V
		-14.5VÒV_iÒ-27V, Io=5mA-1A	0-1 5ω̄	-11.4	-12	-12.6	V
Load Regulation	æVo	Io=5mA-1.5A	25ω̄		15	200	mV
		Io=250mA-750mA	25ω̄		5	75	mV
Line Regulation	æVo	-14.5VÒV_iÒ-30V	25ω̄		5	80	mV
		-16VÒV_iÒ-22V	25ω̄		3	30	mV
Quiescent Current	Iq		25ω̄		2	3	mA
Quiescent Current Change	æIq	-14.5VÒV_iÒ-30V	0-1 5ω̄			0.5	mA
	æIq	5mAÒI_OÒ1A	0-1 5ω̄			0.5	mA
Output Noise Voltage	V_N	10HzÒfÒ100KHz	25ω̄		300		εV/Vo
Output Voltage Drift	ƕVo/ƕ$_T$	I_O=5mA	0-1 5ω̄		-0.8		mV/Ņ
Ripple Rejection	RR	-15VÒV_iÒ-25V,f=120Hz	0-1 5ω̄	54	60		dB
Dropout Voltage	Vd	Io=1A	25ω̄		1.1		V
Peak Current	Ipk		25ω̄		2.1		A

* Pulse test.

TYPICAL APPLICATION