

SHENZHEN TUOFENG SEMICONDUCTOR TECHNOLOGY CO.,LTD TO-220-3L Plastic-Encapsulate Voltage Regulators

7805

7805 Three-terminal positive voltage regulator

Features:

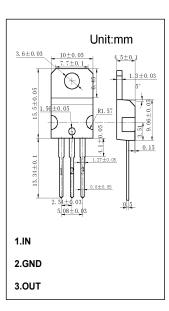
Maximum Output current Iom: 1.2 A

Output voltage V_0 : 5 V Continuous total dissipation

P_D: 1.5W (T_a= 25°C) 15W (T_C=25°C)

Absolute Maximum Ratings (Operating temperature range applies unless otherwise specified)

amos care mos specimen,								
Symbol	Parameter	Value	Unit					
Vi	Input Voltage	35	V					
TOPR	Operating Junction Temperature Range	0 to +150	°C					
T _{STG}	Storage Temperature Range	-55 to +150	°C					
R ₀ JA	Thermal Resistance from Junction to Ambient	83.3	°C/W					
R _{0JC}	Thermal Resistance from Junction to Case	8.3	°C/W					

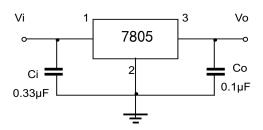


Electrical Characteristics At Specified Virtual Junction Temperature

(Vi=10V,lo=500mA, Ci=0.33µF,Co=0.1µF,unless otherwise specified)

Symbol	Parameter	Test conditions			Тур	Max	Unit
Vo	Output Voltage		25°C	4.8	5.0	5.2	V
		7V≤ Vi ≤20V,lo=5mA-1A,P≤15W	0-125°C	4.75	5.00	5.25	V
ΔVο	Load Regulation	I _O =5mA - 1.2A	25°C		9	100	mV
		I _O =250mA - 750mA	25°C		4	50	mV
ΔVο	Line Regulation	7V≤ Vi ≤25V	25°C		4	100	mV
		8V≤ Vi ≤12V	25°C		1.6	50	mV
lq	Quiescent Current		25°C		5	8	mA
Δlq	Quiescent Current Change	7V≤ Vi ≤25V	0-125°C		0.3	1.3	mA
Δlq		5 mA≤l ₀ ≤1A	0-125°C		0.03	0.5	mA
ΔVο/ΔΤ	Output Voltage Drift	I _O =5mA	0-125°C		-1.1		mV/°C
VN	Output Noise Voltage	f =10Hz to 100KHz	25°C		42		μV
RR	Ripple Rejection	f =120Hz,8V≤ V _i ≤18V	0-125°C	62	73		dB
Vd	Dropout Voltage	I _O =1.0A	25°C		2		V
Ro	Output Resistance	f = 1KHz	25°C		10		mΩ
Isc	Short Circuit Current		25°C		230		mA
lpk	Peak Current		25°C		2.2		Α

Typical Application





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