



LM7812K

Voltage Regulators

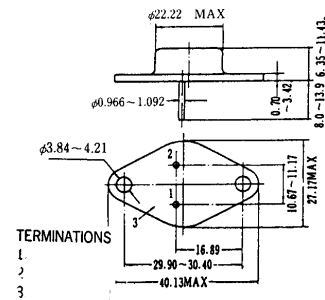
Features

- Output current in excess of 1A
- Internal thermal overload protection
- No external components required
- Output transistor safe area protection
- Internal short circuit current limit
- Available in the aluminum TO-3 package

TO-3

PINOUTS

- 1.INPUT
- 2.OUTPUT
- 3.GND



Absolute Maximum Ratings

Parameters	SYMPOL	Values		UNITS
		MIN	MAX	
Input Voltage	V _{IN}		35	V
Power Dissipation	PD		15	W
Operating Temperature Range		-20	80	°C
Storage Temperature Range		-55	150	°C

ELECTRICAL CHARACTERISTICS

Parameter and Conditions	Values			UNIT
	MIN	TYP	MAX	
Output Voltage V _{IN} = 14.5-27V I _o = 5mA-1.0A PD <= 15W	11.4	12	12.6	V
Line Regulation V _{IN} = 14.5-30V I _o = 500mA			160	mV
Load Regulation I _o = 5mA-1.5A V _{IN} = 19V			120	mV
Input Voltage	14.5		35	V
Ripple Rejection f = 100Hz V _{IN} = 12V I _o = 100mA V _{IPP} = 4V	62			dB
Maximum Output Current		1.5		A
Average TC of V _{OUT} I _o = 5mA T _j = 0-125°C		-0.3		mV/°C
Output Noise Voltage f = 10Hz-100kHz		40		μV