

Continental Device India Limited

An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

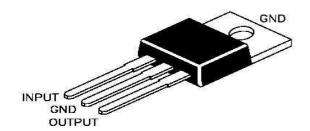




3-TERMINAL POSITIVE VOLTAGE REGULATOR

LM7809

TO-220 Plastic Package



The Voltages Available allow these Regulators to be used in Logic Systems, Instrumentation, Hi-Fi Audio Circuits and other Solid State Electronic Equipment

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

DESCRIPTION	SYMBOL	VALUE	UNIT	
Input Voltage	V_{IN}	35	V	
		40	V	
Power Dissipation	P_{D}	15	W	
Operating Temperature	T_{amb}	- 20 to +80	∘C	
Storage Temperature Range	T_{stg}	- 55 to +150	ōC	

ELECTRICAL CHARACTERISTICS (T_a=25°C unless specified otherwise)

$V_{IN}=18V, I_{O}=100mA, T_{a}=25^{\circ}C$

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Output Voltage	V _O	I _O =5mA ~ 1.5A				
		V _{IN} =12 ~ 24V, P _D 15W	8.65		9.35	V
Line Regulation	R_{EGV}	V _{IN} =11.5 ~ 26V			90	mV
Load Regulation	R_{EGL}	I _O =5mA ~ 1.5A			90	mV
Quiescent Current	Ι _Q				8.0	mA
Quiescent Current Change	Ι _Q	V _{IN} =11.5 ~ 26V			1.0	mA
		I _O =5mA ~ 1A			0.5	mA
Input Voltage	V_{IN}		11.5		26	V
Ripple Rejection Radio	R_R	V _{IN} =12 ~ 22V, f=120Hz	56			dB
Max Output Current	I _{OM}	T _J =25°C		2.2		Α
Output Voltage Drift	V/ _T	I _O =5mA , T _J =0 ~ 125ºC		- 0.5		mV/ºC
Output Noise Voltage	V_{NO}	f=10Hz ~ 100KHz		10		μV
Short Circuit Current Limit	I _{SC}	T _J =25ºC		2.0		Α

LM7809Rev041004E

Customer Notes LM7809

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Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



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