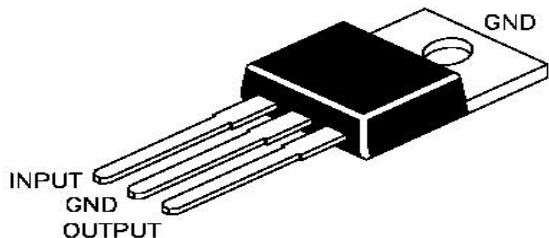


### 3-TERMINAL POSITIVE VOLTAGE REGULATOR



**LM7812**

**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 ( $T_a=25^\circ\text{C}$ )

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

#### ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ unless specified otherwise)

$V_{IN}=19\text{V}$ ,  $I_O=100\text{mA}$ ,  $T_a=25^\circ\text{C}$

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Output Voltage	$V_O$	$I_O=5\text{mA} \sim 1.5\text{A}$ $V_{IN}=15 \sim 27\text{V}$ , $P_D$ 15W	11.5		12.5	V
Line Regulation	$R_{EGV}$	$V_{IN}=14.5 \sim 30\text{V}$			120	mV
Load Regulation	$R_{EGL}$	$I_O=5\text{mA} \sim 1.5\text{A}$			120	mV
Quiescent Current	$I_Q$				8.0	mA
Quiescent Current Change	$I_Q$	$V_{IN}=14.5 \sim 30\text{V}$			1.0	mA
		$I_O=5\text{mA} \sim 1\text{A}$			0.5	mA
Input Voltage	$V_{IN}$		14.5		30	V
Ripple Rejection Radio	$R_R$	$V_{IN}=15 \sim 25\text{V}$ , $f=120\text{Hz}$	55			dB
Max Output Current	$I_{OM}$	$T_J=25^\circ\text{C}$		2.2		A
Output Voltage Drift	$V_T$	$I_O=5\text{mA}$ , $T_J=0 \sim 125^\circ\text{C}$		- 0.8		$\text{mV}/^\circ\text{C}$
Output Noise Voltage	$V_{NO}$	$f=10\text{Hz} \sim 100\text{KHz}$		10		$\mu\text{V}$
Short Circuit Current Limit	$I_{SC}$	$T_J=25^\circ\text{C}$		2.0		A

LM7812Rev041004E

### **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).

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