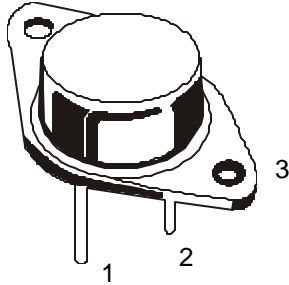


THREE TERMINAL POSITIVE VOLTAGE REGULATOR

TL7812K



PIN CONFIGURATION

- PIN 1 : Input
- PIN 2 : Output
- PIN 3 : Ground

**TO-3
Metal Can Package**

FEATURE :

1. Output Current in Excess of 1.5A
2. Output Voltage of 12V
3. Internal Thermal Overload Protection
4. Output Transition Safe -Area Compensation

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C)

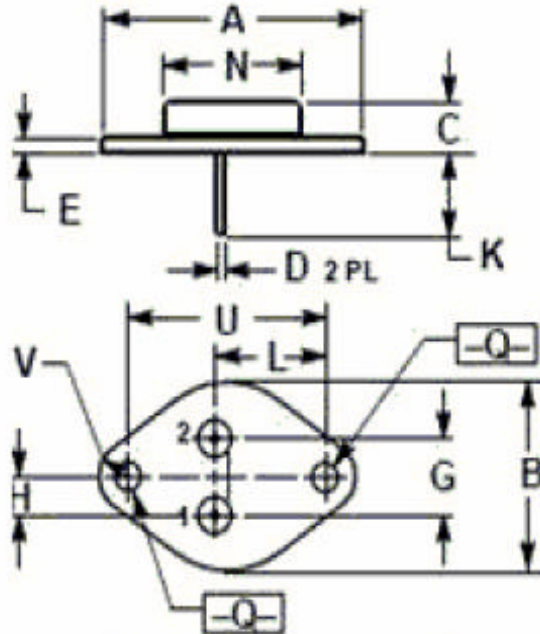
DESCRIPTION	SYMBOL	VALUE	UNITS
DC Input Voltage	V _I	35	V
Output Current	I _O	Internally Limited	
Power Dissipation	P _{TOT}	Internally Limited	
Operating Junction Temperature	T _{OP}	-0 to +150	°C
Storage Temperature	T _{stg}	- 55 to +150	°C

ELECTRICAL CHARACTERISTICS

(T_J=25°C, V_I = 19V, I_O = 0.5A, C_J = 0.33µF, C_O = 0.1µF unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
Output Voltage	V _O	V _{IN} = 19V, I _O = 500mA	11.5	12.5	V
Line Regulation	ΔV _V	14.5V ≤ V _{IN} ≤ 30V; I _O = 500mA		120	mV
Load Regulation	ΔV _I	5.0mA ≤ I _O ≤ 1.0A; V _{IN} = 19V		100	mV
Quiescent Current	I _B	V _{IN} = 19V, I _O = 1A		6	mA
Quiescent Current Change	ΔI _{B1}	5.0mA ≤ I _O ≤ 1.0A; V _{IN} = 19V		0.5	mA
Quiescent Current Change	ΔI _{B2}	15V ≤ V _{IN} ≤ 30V; I _O = 500mA		0.8	mA

TO-3 Package Outline and Dimension



DIM	min	
	MIN	MAX
A	39.00	
B	25.30	26.67
C	7.80	8.50
D	0.90	1.10
E	1.40	1.60
G	10.92	
H	5.46	
K	11.30	13.50
L	16.75	17.05
N	19.40	19.62
Q	4.00	4.20
U	30.00	30.20
V	4.30	4.50

PIN CONFIGURATION

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Customer Notes

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 is 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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Continental Device India Pvt. Limited

C-120 Naraina Industrial Area, New Delhi 110 028, India.

Telephone + 91-11-2579 6150, 4141 1112 Fax + 91-11-2579 5290, 4141 1119

email@cdil.com www.cdil.com

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