

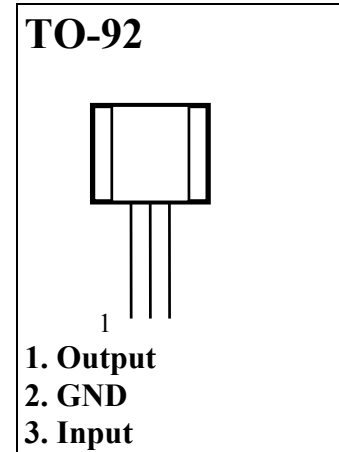
78L15 A • THREE-TERMINAL POSITIVE VOLTAGE REGULATOR IC

FEATURES:

- OUTPUT CURRENT IN EXCESS OF 100mA;
- NO EXTERNAL COMPONENTS REQUIRED;
- INTERNAL SHORT CIRCUIT CURRENT LIMITING;
- INTERNAL THERMAL OVERLOAD PROTECTION;
- OUTPUT TRIMMET TO $\pm 5\%$ TOLERANCE;

ABSOLUTE MAXIMUM RATINGS (Ta= 25° C)

Characteristic	Symbol	Norm	Unit
Input Voltage	V _{in}	V	35
Junction Temperature	T _j	°C	150



ELECTRICAL CHARACTERISTICS

(V_{in}=23V, I_o=40mA, C_i=0.33mkF, C_o=0.1mkF, T_j=0+125°C, unless otherwise noted.)

Characteristic	Symbo l	Norm			Unit
		Min	TYP	Max	
Output Voltage(T _j =25°C)	V _o	14,4		15,6	V
Output Voltage 1.0mA ≤ I _o ≤ 40mA, 17,5 V ≤ V _{in} ≤ 30V 1.0mA ≤ I _o ≤ 70mA, V _{in} = 23V	V _o	14,25 14,25		15,75 15,75	V
Line Regulation (T _j = +25°C, I _o = 40mA) 17,5 V ≤ V _{in} ≤ 30 V 20 V ≤ V _{in} ≤ 30 V	ΔV _v			300 250	mV
Load Regulation(T _j = +25°C) 1.0mA ≤ I _o ≤ 0.1A 1.0mA ≤ I _o ≤ 40mA	ΔV _i			150 75	mV
Quiescent Current T _j = +25°C	I _b			6.5	mA
T _j = +125°C	I _b			6.0	mA
Quiescent Current Change 20 V ≤ V _{in} ≤ 30 V 1.0mA ≤ I _o ≤ 40m A	ΔI _b			1.5 0.1	mA
Dropout Voltage (I _o = 40mA, T _j = +25°C)	V _i - V _o		1,7		V