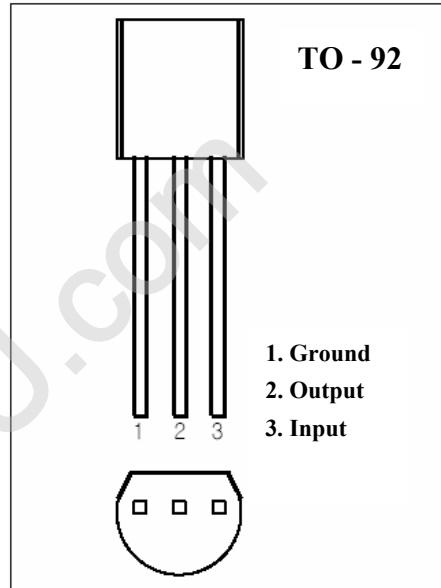
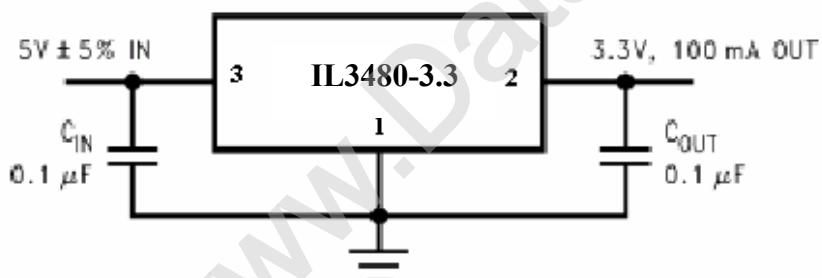


100mA, Quasi Low-Dropout Voltage Regulator**IL3480****Features:**

- 3.3, 5V versions available
- 30V maximum input for operation
- 1.2V guaranteed maximum dropout over full load and temperature ranges
- 100 mA guaranteed minimum load current

Application:

- Tiny alternative to 78LXX series and similar devices
- Low-Dropout Voltage Regulator
- Post regulator for switching DC/DC converter
- Bias supply for analog circuits

**Typical Application Circuit****Absolute Maximum Ratings**

Input Voltage	35V
Junction Temperature	+150°C

Electrical Characteristics IL3480-3.3, IL3480-5.0

Typicals and limits appearing in normal type apply for TA = TJ = 25°C. Limits appearing in boldface type apply over the entire junction temperature range for operation, -10 to +70°C. (Notes 1, 2)

Nominal Output Voltage (VNOM)			3.3V			5.0V			Units
Parameter	Symbol	Conditions	Min	Typ	Max	Min	Typ	Max	
Output Voltage	Vout	Vin=Vnom+1.5V; 1mA≤Iout≤100mA	3.17 3.14	3.3	3.43 3.46	4.8 4.75	5.0	5.2 5.25	V
Line Regulation	ΔVout	Vnom+1.5V ≤ Vin ≤ 30V; Iout = 1mA			25			25	mV
Load Regulation	ΔVout	Vin=Vnom+1.5V; 1mA≤Iout≤100mA			40			50	mV
Ground Pin Current	I _{GND}	Vin=30V No Load		3	4		3	4	mA
Ground Pin Current Change	ΔI _{GND}	Vnom+1.5V ≤ Vin ≤ 20V, Iout = 40mA; Vin=Vnom+5V, 1mA≤Iout≤40mA			1.4 0.5			1.4 0.5	mA mA
Dropout Voltage	V _{in} - V _{out}	Iout = 10mA; Iout = 100mA			0.9 1.0 1.1 1.2			0.9 1.0 1.1 1.2	V

Note 1: A typical is the center of characterization data taken with TA = TJ = 25°C. Typicals are not guaranteed.

Note 2: All limits are guaranteed. All electrical characteristics having room-temperature limits are tested during production with TA = TJ = 25°C. All hot and cold limits

are guaranteed by correlating the electrical characteristics to process and temperature variations and applying statistical process control.

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