

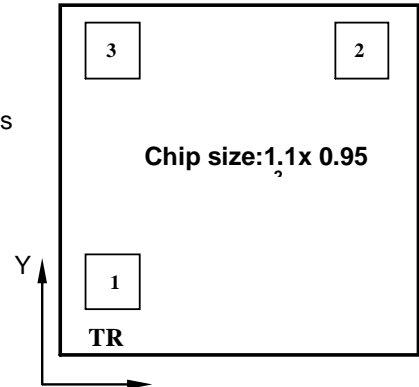
IL3480-XX	100mA, Quasi Low-Dropout Voltage Regulator
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FEATURES:

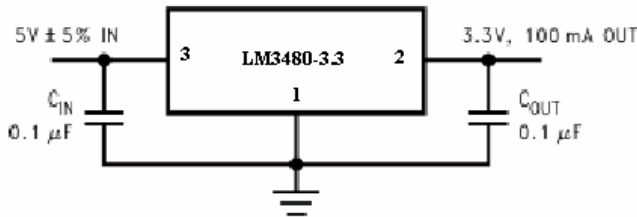
- u 3.3, 5V versions available
- u 30V maximum input for operation
- u 1.2V guaranteed maximum dropout over full load and temperature ranges
- u 100 mA guaranteed minimum load current

APPLICATION:

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



TYPICAL APPLICATION CIRCUIT



PAD LOCATION

Pad No.	Pad Name	X	Y
1	GND	92	107
2	Output	899	747
3	Input	92	747

Note:

- Co-ordinates (bottom left co-ordinates corner), µm
- Pads size: 96x96 µm²

<p>PHISICAL CHARACTERISTICS</p> <p>Wafer Diameter..... 100 ± 0.5 mm; Wafer thickness 280 ± 20µm; Scribe width 80 µm; Metallization: Top... Al Bottom... without metallization</p>	<p>ABSOLUTE MAXIMUM RATINGS</p> <p>Input Voltage 35V Junction Temperature +150°C</p>
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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			50			50	mV
Ground Pin Current	IGND	Vin=30V No Load		3	4		3	4	mA
Ground Pin Current Change	ΔIGND	Vnom+1.5V ≤ Vin ≤ 20V, Iout = 40mA; Vin=Vnom+5V, 1mA ≤ Iout ≤ 40mA			1.4			1.4	mA
					0.5			0.5	mA
Dropout Voltage	Vin- Vout	Iout = 10mA; Iout = 100mA			0.9			0.9	V
					1.0			1.0	
					1.1			1.1	
					1.2			1.2	

Note 1: A typical is the center of characterization data taken with TA = TJ = 25°C. Typical values 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.