

## LM376N Positive Voltage Regulator

### REFERENCE TABLE

LM376N Stock No. 29005B

### GENERAL DESCRIPTION

The LM376 is a positive voltage regulator for use in consumer products.

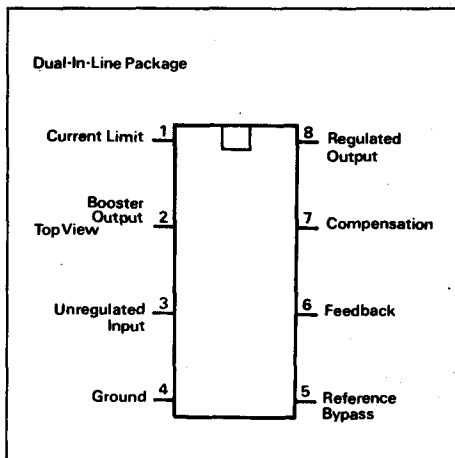
### ABSOLUTE MAXIMUM RATINGS

Input voltage	30V
Input-output voltage differential	30V
Power dissipation (Note 1)	400mW
Operating temperature range	0°C to 70°C
Storage temperature range	-65°C to +150°C
Lead temperature (Soldering, 10 sec.)	300°C

### FEATURES

Output voltage range:	+5 to 27V
Output current	25mA
Load regulation	1%
Line regulation	0.4%/V

### CONNECTION DIAGRAM



See outline drawing No. 103 for dimensions.

### ELECTRICAL CHARACTERISTICS (NOTE 2)

Parameter	Conditions	Min.	Typ.	Max.	Units
Input voltage range		9.0		30	V
Output voltage range		5.0		27	V
Output-input voltage differential		3.0		25	V
Load regulation	0 ≤ I <sub>o</sub> ≤ 25mA R <sub>sc</sub> = 0Ω, T <sub>A</sub> = 25°C R <sub>sc</sub> = 0Ω, T <sub>A</sub> = 70°C R <sub>sc</sub> = 0Ω, T <sub>A</sub> = 0°C			1.0 1.5 1.5	% % %
Line Regulation				0.4	%/V
Ripple rejection	f = 120Hz			0.4	%/V
Standby current drain	V <sub>IN</sub> = 30V			2.5	mA
Reference voltage			1.72		V
Current limit sense voltage			.325		V

**Note 1:** For operating at elevated temperatures, the device must be derated based on a 100°C maximum junction temperature and a thermal resistance of 187°C/W junction to ambient.

**Note 2:** These specifications apply for an operating temperature between 0°C and 70°C.

PLEASE QUOTE STOCK NO. AND MANUFACTURER'S CODE WHEN ORDERING